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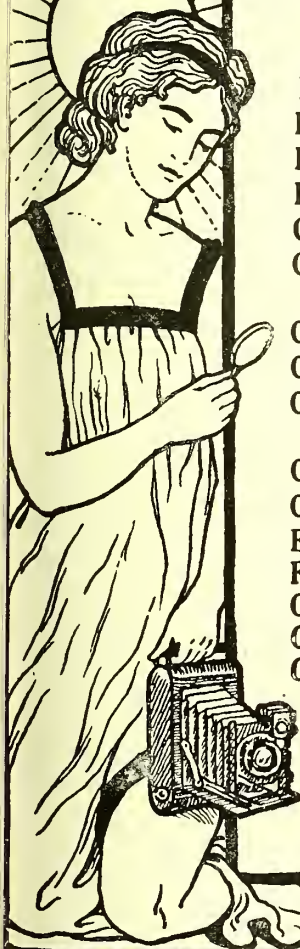
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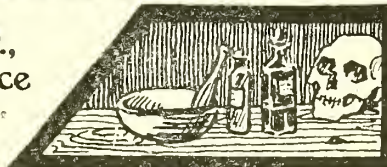
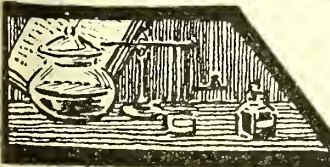
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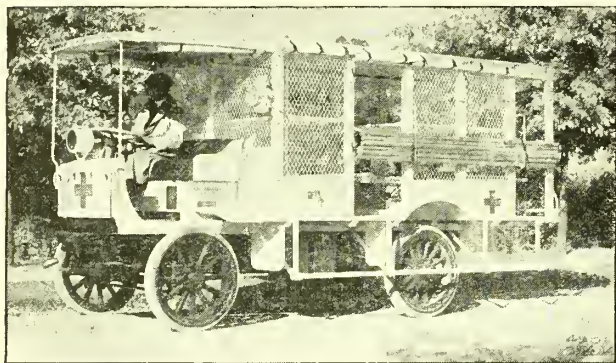
ANIMAL SUBSTANCES

BONE MARROW
HÆMOGLOBIN
LECITHIN
OX-GALL
PEPTONE

SODIUM GLYCOCHOLATE
SODIUM TAUROCHOLATE

We devote our whole time and attention to the manufacture of Digestive Ferments and Organo-Therapeutic Products, and we claim to produce the Highest Qualities at the Lowest Prices.

In War and Peace !



Field Ambulance equipped with the Biological and Emergency Products of H. K. Mulford Company.

Krelos, a reliable and effective germicide and antiseptic, five to eight times more active than carbolic acid.

Bismuth-Formic-Iodide Comp. (Dry Surgical Dressing). An effective antiseptic, astringent dry dressing for wounds, cuts etc. Samples on request.

Iodine Ampuls, for "First Aid" and Emergency Packages. To prevent wound infection.

Serums

Tetanus Antitoxin, for the treatment and prevention of Tetanus (Lockjaw).

Diphtheria Antitoxin, for the treatment and prevention of Diphtheria.

Antidysenteric Serum, for the treatment of Bacillary Dysentery.

Antimeningitis Serum, for the treatment of Cerebro-spinal Meningitis.

Antipneumococcic Serum, for the treatment of pneumonia.

Antistreptococcic Serum, for the treatment of Streptococcic Infection.

Bacterins and Vaccines, for immunization against Small-pox, Typhoid, Cholera, Plague, Streptococcic Infection (Blood Poisoning), Pneumonia, Influenza, "Colds."

Emetine, for the treatment of Amœbic Dysentery.

Awarded the Gold Medal for Biological Products

At the Seventeenth International Congress of Medicine, London, August 1913.

H. K. MULFORD COMPANY, Manufacturing and Biological Chemists.
Philadelphia and Glenolden, U.S.A.
LONDON : 119 High Holborn, W.C.

Distributing Agents for Great Britain : **THOMAS CHRISTY & CO.**, Old Swan Lane, London E.C.

TELEGRAPHIC
ADDRESS:
ELEVEN CENT LONDON

Maw's

S MAW SON & SONS
(G.P.O. BOX N° 54)
7-12, ALDERSGATE ST.
LONDON, E.C.



Page

TELEPHONE
CITY 7
PRIVATE BRANCH EXCHANGE

NUMBER 229

MARCH 4, 1916

Trouble in the Air

A truculent boy, when cornered by his adversaries, will often throw stones as a final defiance of right against might.

There is a certain state (small "s," please) in Europe which pins its faith to this method of attack. Its "stones" are Zeppelins and aeroplanes.

The most interesting thing about a Zeppelin is its size. If one was brought down, end-on, adjoining St. Paul's Cathedral, its "tail" would be 150 feet *above* the top of the cross. The cross is 365 feet above the ground. We read of the speed of the Zeppelins, their equipment of guns and bomb-carrying capacity, their wireless instalment and the number of the crew. We hear of comfortable cabins and powerful motors, and the possible radius of their activities.

Unscrupulous foes have demonstrated the capabilities of the Zeppelin. Their dastardly exploits over England are a warning to pharmacists to *be prepared*.

Only those who have resided in a war-torn district know the urgent need of first-aid requisites of every description. We are supplying for this purpose a handy janned Ambulance Box, containing an assortment of requisites, and bandages, ointments, plasters, etc. The price is 11/-. We have smaller patterns priced at 6 and 5/6.

Many of our customers have successfully introduced these boxes to local factories, institutions, and emergency corps.

Our large experience in surgical supplies enables us to know just what is required.

Capsule



A LINE YOU KNOW

You can have prompt supplies of Maw's Best Black Seamless Enema. You are no doubt acquainted with it as the splendid full-size syringe of extra quality.

Fitted with rectal pipe, black gum elastic vaginal pipe and shield, and *strainer* suction valve.



Put up in
hinged
dome-top
box.

This is a
popular,
high-class
pattern.

PRICE
44/-
DOZEN

MENTHOL CRYSTALS

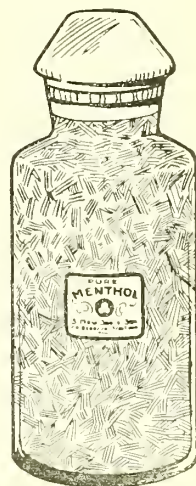
Our recent offer on this page created great interest. We now repeat it.

PRESENT
PRICES:

Per lb., 15/-

Per ½ lb.,
16/- per lb.

In 5-lb. original tins,
14/- lb. net.



FEEDING CUPS

We hold a good selection. English Ware.
Leadless Glaze.

	Small.	Medium.	Large.
Plain White ...	7/-	8/-	9/- doz.
White and Gold ...	10/-	11/-	12/6 "
Red Cross ...	9/6	10/6	12/- "
Red and Gilt Lines ...	11/3	12/-	13/9 "
Floral ...	8/6	10/-	12/6 "
Floral and Gilt ...	9/6	11/6	13/- "

USUAL DISCOUNT OFF ABOVE PRICES.

Sanaphos

T.M. Reg.

—now carrying on an effective advertising campaign, to increase sales at your counter.

THE BRITISH MILK PRODUCTS CO., LTD.,
69 Mark Lane,
LONDON, E.C.

The fixed prices at which **Sanaphos** is sold show a net profit to the retail chemist of over 30 per cent. on selling price (over 40 per cent. on cost).

The wholesale prices are:—
1/- size, 8/6 per dozen; 1/6 size, 12/9 per dozen; 2/6 size, 21/- per dozen; 5/- size, 42/- per dozen.

Sanaphos is a reconstructive NERVE Food. It is Nutrient, Restorative and Activating.

It is indicated in Mental and Physical Fatigue; Nervous Breakdown; Insomnia; and Neurasthenia.

The product of an alien enemy is effectively displaced by **Sanaphos**.

Sanaphos is an organically phosphated milk product, much superior to the German-owned article.

It is prepared in England under strict scientific control.

Chemists are invited to write for samples and all particulars; and to send names of physicians, to whom we shall be pleased to send samples of **Sanaphos** and copies of numerous professional endorsements.

THE MOST ECONOMICAL INFANTS' FOOD.



PRICES PROTECTED.

Dr. Allinson's Food Preparations.

Food for Babies, Prepared Barley, Brunak, Power, N.-F. Cocoa, Biscuits, Soup, Wholemeal, &c.

NOTICE TO THE TRADE

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON." *None Genuine Without.*

NATURAL FOOD COMPANY, LIMITED,
Cambridge Rd., Bethnal Green, LONDON, E. 1

Handbills, Booklets, Showcards, &c., Free.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.



TOMMY'S COOKER.

A Marvel of Simplicity & Utility

Is the most welcome gift to soldiers in the trenches... Give him one before he leaves for the front... For preparing food out of doors it is perfection.

Used by the British, Belgian and French Army in the Field, and the Red Cross Society.

PRICE, 1/- REFILLS, 2/-
ADVANTAGES.—1. Wind does not blow it out. 2. Composition unaffected by weather or climate. 3. Stand carries heavy pots or pans.

Tommy's Cooker Co. Ltd.

Works: 31 Carburton St., London, W.

HORLICK'S RATION TINS

OF

MALTED MILK TABLETS

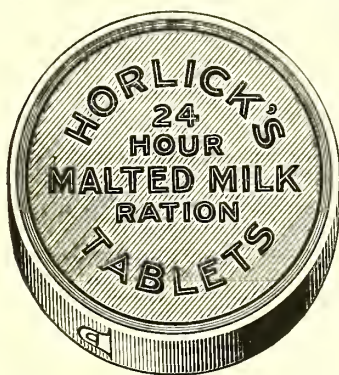
can now be supplied
in limited quantities
TO THE TRADE

at

12/6 per Doz.

plus carriage.

**For Despatch
BY POST
—TO—
MEN AT
THE FRONT**



**RETAIL
- PRICE -
1/6
PER TIN.**

**ORDER OF YOUR WHOLESALE HOUSE
OR OF
HORLICK'S MALTED MILK CO., SLOUGH, BUCKS.**

British Aperient Water

"Aquaperia" is an excellent and efficient Aperient Water to supplant Foreign Mineral Waters of similar character.

Standardised and bottled by CAMWAL, Ltd., at their Spring at **HARROGATE** in handsomely got-up 32—35 oz. bottles (supplied also through any other Camwal Factory).

"AQUAPERIA"

A Harrogate Aperient Water

offers a
Good Margin of Profit.

WHOLESALE PRICES; HOME TRADE:

7/-	Per Dozen.	Delivered Free within our Van delivery areas from all Factories.
7/-	Per Dozen.	Carriage Paid in England and Wales, if ordered with other goods (of a total weight of over 3 cwt.), or in 6 dozen lots.
7/6	Per Dozen.	Carriage Paid in 2 dozen lots in England and Wales. Smaller quantities Carriage Forward.

Bottles included in the above prices, and allowed for at 1/- per dozen if returned Carriage Paid to any of our Factories. Cases charged, and allowed for on return.

OPENING ORDER FOR ONE DOZEN

Carriage Paid anywhere in England and Wales.

PRICE **7/-**

Terms: Cash with Order.

RETAIL PRICE 1/- MINIMUM (P.A.T.A.) 11d.

PER BOTTLE.

PER BOTTLE.

FOREIGN AND EXPORT TRADE.

Special F.O.B. Quotations including Bottles, packing and unreturnable Cases.

"CAMWAL" Ltd.,

Head Office: 112 PEMBROKE ST.,
LONDON, N

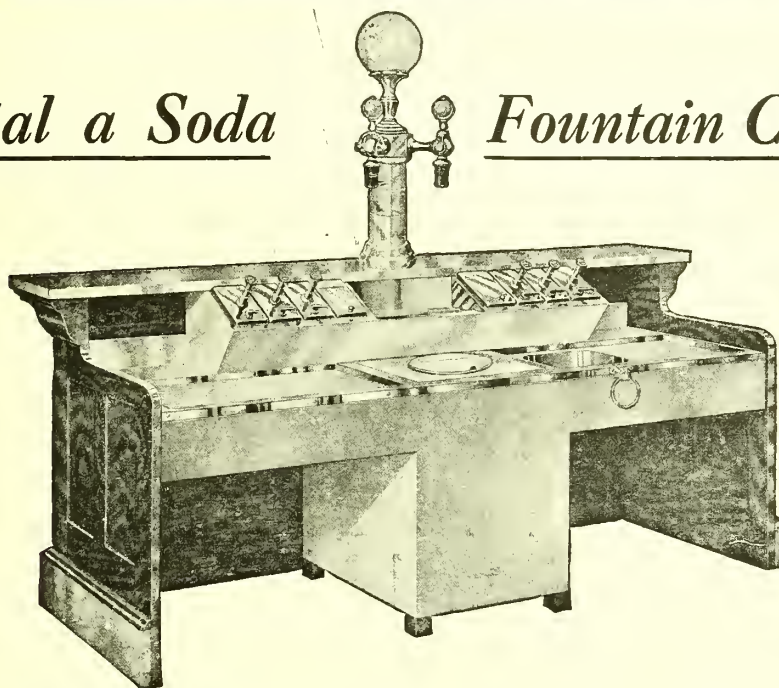
HARROGATE, MANCHESTER, BIRMINGHAM, BRISTOL and MITCHAM.



A Money-making Proposition for Enterprising Chemists & Druggists !!

Instal a Soda

Fountain Counter



The Soda Fountain is a prominent feature with Druggists' Stores throughout the United States. Why not here? It may be looked upon as an innovation, but is a step in the right direction as a Profit Earner!

It will improve the appearance of your Store and draw new customers if you have the right kind of Fountain, and that is

THE "RED CROSS" SODA FOUNTAIN (THE STANDARD OF THE WORLD)

MANUFACTURED BY

The BISHOP-BABCOCK-BECKER CO., Cleveland, Ohio, U.S.A.

The range and variety of styles and sizes is practically unlimited, enabling every possible requirement being met.

Sole Agents for the United Kingdom and South Africa:

L. LUMLEY & CO., Ltd., The Minories, LONDON, E.,
who will be pleased to submit designs and advise those interested.



TWO NEW LINES

AT PROTECTED PRICES.

"GONOREX"

The up-to-date remedy for Gonorrhoea in all stages of the complaint. It neither nauseates nor causes digestive derangement. An ideal counter line.

Trade price, 27/- doz net; Min. Retail, 3/-.

"LIQUID IODEX" ATOMIZER OUTFIT

Consisting of an "M. & J." Atomizer and Bottle of Liquid Iodex in Convenient Case. Ideal for use in Catarrh, and other naso-pharyngeal conditions

Trade price, 48/- doz. net; Min. Retail, 5/-

MENLEY & JAMES, LTD.,

Manufacturing Chemists,

"MENLEY HOUSE," FARRINC'DON ROAD, LONDON, E.C.

PURE DRINKING WATER.



The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT STATEMENT:

Wherever the PASTEUR FILTER has been applied, TYPHOID FEVER has disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.
5 WHITE STREET, FINSBURY,
LONDON, E.C.

A NEW LINE!

TOWNSEND'S

Cambric Toilet Paper

(A High-class Toilet Roll).

Sample and Price await
your enquiry.

JAMES TOWNSEND & SONS,
EXETER and LONDON.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants,
Manufacturing Chemists

HULL

Regret that, owing to great increases in cost of ingredients and containers, they are reluctantly compelled to raise the net prices of the following P.A.T.A. lines:

		Protected Retail.	Dozen Net.
LOSALL'S SALT	- -	6d. tins	4/-
" "	- -	1/- "	8/-
" "	- -	1/6 bottles	10/6
" BALLROOM FLOOR POLISH	1/- tins		7/6
" MILK FOOD (1/- tins)	10d. each		7/-
LOSALL'S SOAP	- -	4d. tabs.	8/6
		(3 tabs. in box)	

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

REVISED PRICES.

LARGE SALES—GOOD PROFITS, P.A.T.A.

ASSURED TO CHEMISTS

WHO PUSH

COW & GATE

MILK FOODS

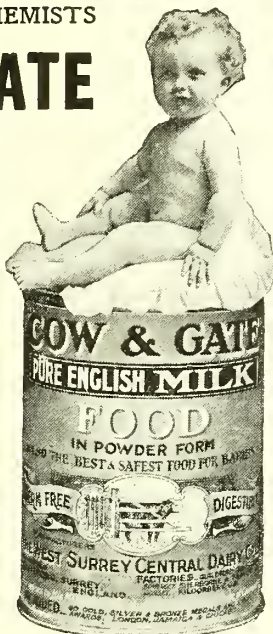
THE POPULAR, PRACTICAL SUBSTITUTE FOR MOTHER'S MILK.

Saves the Lives of
Delicate Infants.

A BOON TO MOTHERS
AND NURSES.

"BABIES LOVE IT."

HIGHLY APPROVED BY THE
MEDICAL PROFESSION.



Owing to the continual rise in cost of milk, tins, packing materials and all manufacturing costs, we have been compelled to advance prices of our well-known Foods, as revised price list attached.

These Prices show the Retailer an Average Profit of over 27 % on a monthly a/c, with a carriage paid minimum of 30/-.

The size and contents of our tins have not been reduced. It remains the best value to the public of any complete Milk Food on the Market.

WHOLESALE PRICE LIST OF TINS. All Previous Lists Cancelled.

FULL CREAM FOOD. (Pink Label.) For general use and for Children and Infants over 6 months old.		SIZE 1/- 1/11	MINIMUM RETAIL PRICE 1/- 1/11	MINIMUM WHOLESALE PRICE 9/- doz. 17/6 doz.
		HOUSEHOLD TIN.		
		5/7	5/7	4/4 each
HALF CREAM FOOD. (Blue Label.) Best for Infants under 6 months. Its use saves delicate Babies.		10½d. 1/8	10½d. 1/8	7/10 doz. 15/- doz.
		HOUSEHOLD TIN.		
		4/9	4/9	3/7 each
		1/-	1/-	9/- doz.
SEPARATED. (White Label.) Contains about 1 per cent. of its Butter-fat, but is specially rich in proteid, containing about 40 per cent., that is, 1lb. of this Powder contains as much body building material as 2lb. 10oz. of Fresh Beef. The special method of preparation renders this milk perfectly easy of digestion to the most delicate.		HOUSEHOLD TIN.		
		4/6	4/6	3/4 each

TERMS:—2½ % Discount will be allowed on a/cs paid by the 15th of each month following date of Invoice. After which date no discount will be allowed under any circumstances whatever.

CARRIAGE PAID on orders of 30/- by goods train England and Wales, and on orders of 60/- value Scotland and Ireland. When required by passenger train the difference between goods and passenger rate will be charged.

STOCKED BY ALL THE LEADING WHOLESALE HOUSES.

SOLE MANUFACTURERS:

THE WEST SURREY CENTRAL DAIRY COY., LTD., GUILDFORD.

RECOMMEND THE PROTECTED BRAND

AND SUPPORT THOSE WHO SUPPORT YOU. IT PAYS YOU TO PUSH THIS INK IN PREFERENCE TO NON-PROTECTED MAKES. IT IS NOT ONLY THE BEST, BUT SHOWS YOU THE MOST PROFIT.

**40%
MINIMUM
PROFIT**

**JOHN BOND'S
"CRYSTAL PALACE"
MARKING INK.**

**FIXED
SELLING
PRICES**

With or without heating, whichever kind is preferred.
Please specify when ordering.

As supplied to the Royal Households, and awarded forty-five Gold Medals, etc.

"THE ANTI-CUTTING RECORD" says:—"We are strongly of opinion that John Bond's 'Crystal Palace' Marking Ink should not only be kept in stock, but, in common fairness to the Proprietor, distributors may justly give this well-known line all the display, recommendation and push in their power."

N.B.—This is not a cut 6d. Marking Ink, sold at the Stores for 3½d.

ROLL FILMS DEVELOPED

AND DESPATCHED DAY AFTER RECEIPT.

Express Developing Co.,

86, High St., Whitechapel, E.C.

Speciality:
Chemists'
Enlargements
and ALL
Practical
Photographic Work.

Contact
Prints.
Coloured
Miniatures.
Post Cards.
Carbon

Send for Price List of our Profitable Chemists' Side Lines.

Telegraphic Address: "Champagne Manchester."

Telephone: 138 Pendleton.

B. ROBINSON & Co., Ltd., PENDLETON, MANCHESTER.

Established
1855.

ORIGINAL

Excise Drawback on
Export Orders.

CONCENTRATED WATERS.

STANDARDISED TO B.P. 1914.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassia Conc.	4/- per lb.	Aqua Menth. Virid. Conc.	4/- per lb.
" Anethi, Concent.	4/- "	" Flor. Aurant.	3/6 "	" Pimentæ "	4/- "
" Anisi "	4/- "	" Sambuci Conc.	3/6 "	" Pulegii "	4/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosemarini "	4/- "
" Carui "	4/- "	" Menth. Pip. Conc.	4/- "	" Rosæ "	3/6 "
" Cinnam. Ver. Conc.	6/- "	" Ang. Conc.	6/- "	" Virgin "	10/6 "

The above may be had in ½-lb., ¼-lb., or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses. Each Bottle has the Inventor's Protection Label over the Cork, without which none are genuine.

PURE ORANGE WINE.

(VINUM AURANTII, B.P. 1914.)

(Samples of any of the above sent free on application.)

**LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.**

**LONDON AGENTS:
VILCOX, JOZEAU & CO., 49, Haymarket, S.W.**



**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

**THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.**

*Sold by all Chemists,
Wholesale: 8, Rue Vivienne,
PARIS.*

MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
ties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.*

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

**A harmless antiseptic
preventative against CHOLERA-
FERMENTATION - INDIGESTION
& other intestinal disturbances.**

SOLD BY ALL CHEMISTS



*I find the odor exquisite and
shall be charmed to have recalled
by my name. Very Sincerely,
Mary Garden*

**PARFUM
MARY
GARDEN**

RIGAUD

PARFUMEUR

**16, RUE DE LA PAIX,
PARIS.**

**LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.**

CHUIT NAEF & CO.

M. NAEF & CO.

(Successors)

GENEVA, Switzerland.

WORLD - RENOWNED PERFUMERS
are now using our leading Specialties in
Synthetic & Aromatic Chemicals

We cannot improve our qualities, **but You** can blend our ingredients and produce exquisite Perfumes.

Up-to-date Novelties for modern floral odours are:

Cyclosia . . . As indispensable as Jonone in modern perfume laboratories.
Lilafleur . . . The most delightful and refreshing Lilac odours ever produced.
Fleur de Muguet . . . Very finest perfume of the Lily of the Valley.
Rose Orient . . . The best substitute existing for the costly Bulgarian Otto of Roses.
Rose Provencale . . . Yields the typical odour of the natural Rose Oils as produced in the South of France.

Samples and Price Lists sent on application.

AGENTS:

E. GUILLEVIC & CO. - - - 19 St. Dunstan's Hill, E.C.
A. BEROU - - - 11 Rue du Perche, PARIS 3e Arrt.
UNGERER & CO. (Inc.) - - 273 Pearl Street, NEW YORK.
ED. L. VAN NIEROP & CO.'S JAPAN TRADING CO. - KOBE, JAPAN.

MAGNUS, MABEE & REYNARD, Inc.

257 Pearl Street,

Cable Address— "MAGLAUR." *New York City, U.S.A.*

Importers and Manufacturers.

**ESSENTIAL OILS,
VANILLA BEANS,
DRUGS & CHEMICALS.**

We offer for sale—

Oil Peppermint, American	Oil Sassafras, Natural
" Spearmint	" " Artificial
" Birch (Wintergreen)	" Wormseed, Baltimore
" Wintergreen Leaf	" Wormwood, Americas
" Cedarwood	" Sandalwood, W.I.
" Limes, Distilled	Balsam Tolu
" " H. P.	" Copaiba
	" Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.

PRICE'S**EXTRA
TRIPLE****Eau de
Cologne****WICKERED BOTTLES.**

Packed in neat original pattern wooden boxes of various sizes, containing either one or three bottles.

Especially suitable for
Dispatch.

PRICE'S**BATTERSEA, LONDON, S.W.**

**Eau de Cologne and
General Perfumery.**
Price Lists on application.

**Attractive Showcase
Offer.**
Particulars on application.

E. GUILLEVIC & CO.

do not claim any undue superiority for the products they offer, but respectfully refer interested houses to pages 376-377 of the *Chemist and Druggist Diary, 1916*, which indicate the important Agencies we hold. The names of these firms speak for themselves, indicating, as they do, leading houses of first-class reputation who offer reliable products only, and carry out any engagements which they undertake. Their united support enables us to state, with confidence, that we

ARE HEADQUARTERS

for the following products :—

SYNTHETIC & AROMATIC CHEMICALS.

For Perfumers, Soapmakers, Confectioners, Tobacco Manufacturers, &c.

FRENCH ESSENTIAL OILS.

For Soapmakers, Perfumers, Manufacturing Chemists, Confectioners, Tobacco Manufacturers, &c.

FRENCH EDIBLE OLIVE OILS.

(Highest Grades), for Manufacturing Chemists, Wholesale Grocers, &c.

BULGARIAN OTTO OF ROSES. TERPENELESS OILS.
TONQUIN MUSK. AMBERGRIS, YLANG YLANG. VETIVERT.
SIAM GUM. SICILIAN ESSENCES, &c. &c.

LARGE STOCKS ALWAYS HELD IN LONDON.

Your kind inquiries are solicited.

E. GUILLEVIC & CO., 19 St. Dunstan's Hill, LONDON, E.C.

TELEPHONE: Avenue 5089.

TELEGRAMS: "Phloxia, Bilgate, London."

THE "REGNAS"

Semi-Solid BRILLIANTINE

In Collapsible Tubes,
 $\frac{1}{2}$ - doz, on Showcard
as this →

There's not a quicker selling line in the whole kingdom at present than Semi-Solid Brilliantine.

It is a comparatively new line, and as such has the added benefit of novelty to recommend it.

The cards are most attractive, being printed in a warm brown tint on white, and the tubes themselves labelled the same colour on buff glazed paper.

$\frac{1}{2}$ -dozen on Card,
per dozen
3/9

Your name and address on 6 dozen FREE.



SECURED : a perfect parting.

PREVENTED : a cold in the head.

GUARANTEED : defeat of vermin.

NEVER : a damp head.

ALWAYS : a smart appearance.

RESULT : complete satisfaction.

B.P. OINTMENTS

In COLLAPSIBLE TUBES.



Handier than chippettes
or tins. Saves your
time in putting up, and
cleaning up afterwards.

Boracic,	per doz.,	3/0
Carbolic	„	3/2
Sulphur	„	3/3
Zinc	„	3/3

Sangers

258 EUSTON ROAD, LONDON, N.W.

1/- PER TABLET

3% Biniodide

MERCURIAL SOAP

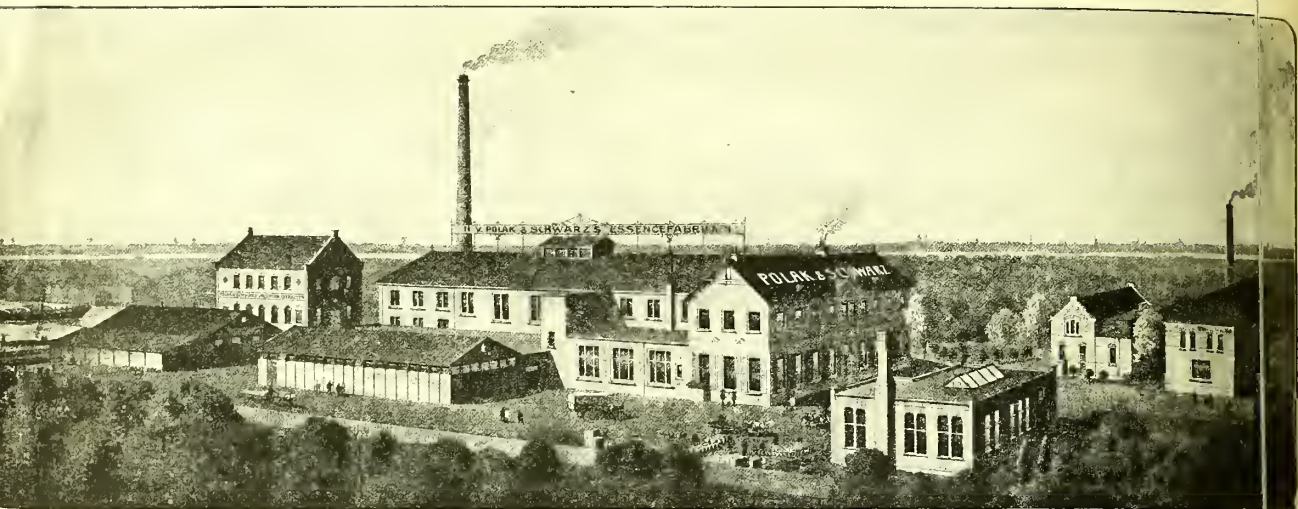
EACH TABLET BEARS A 3d. GOVERNMENT STAMP.

Wholesale Price **2/-** PER 3 TAB. BOX.



THIS IS WITHOUT DOUBT THE MOST POWERFUL GERMICIDAL SOAP MADE.

EDWARD COOK & CO., Ltd. - - THE - - SOAPERY, BOW, LONDON, E.



THE LIST YOU WANT

THESE ARE SOME OF OUR SPECIALITIES.

SYNTHETIC PERFUMES

PHENYLACETAL-
DEHYDE

AMYL-
SALICYLATE

ESSENTIAL —OILS—

COGNAC OIL,
GREEN

WINTERGREEN
OIL, ARTIFICIAL

FLOWER —OILS—

ACACIA

NEROLI

**N. V. POLAK & SCHWARZ'S ESSENCEFABRIEKEN
ZAANDAM—1889—HOLLAND**

SINCE ITS ESTABLISHMENT IN 1889 THIS COMPANY HAS BEEN UNDER DUTCH
MANAGEMENT, WHILST THE CAPITAL IS FURNISHED BY DUTCHMEN ONLY

IMPORTANT NOTICE

CROSBY'S BALSAMIC COUGH ELIXIR Dr. ROOKE'S SOLAR ELIXIR Dr. ROOKE'S ORIENTAL PILLS

In view of the extensive demand created for these products by our new advertising campaign, and in order that your customers shall secure these articles in their best possible condition, the Proprietors give notice that they are willing to exchange any old or soiled stock for new stock.

The NEW PRICES are as follows:—

Size	1/3	3/-	5/-	12/-
Minimum Retail Price	1/2	2/11	4/10	11/6
Wholesale (per dozen)	11/8	29/6	48/-	117/6

Discount.—10 per cent. on parcels of £5 and upwards, cash at 14 days (otherwise strictly net).

Packages.—Free. Carriage paid on £5 parcels.

DR. CHARLES ROOKE, LIMITED, LEEDS.

PETROLEUM JELLY B.P.

WHITE, YELLOW, GOLDEN.
Also Manufactured Jellies.

WHITE Half-white and Coloured Oils PARAFFINUM LIQUIDUM B.P. 1914. 0.860—0.890.

Wholesale Only.

THE STERN SONNEBORN OIL CO., Ltd.

61 Royal London House, Finsbury Sq.,
LONDON, E.C.

Works : Burdett Oil Works, Limehouse, E.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

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The Largest Makers in the Kingdom.

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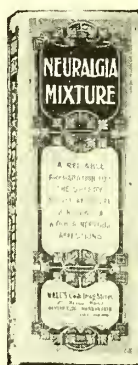
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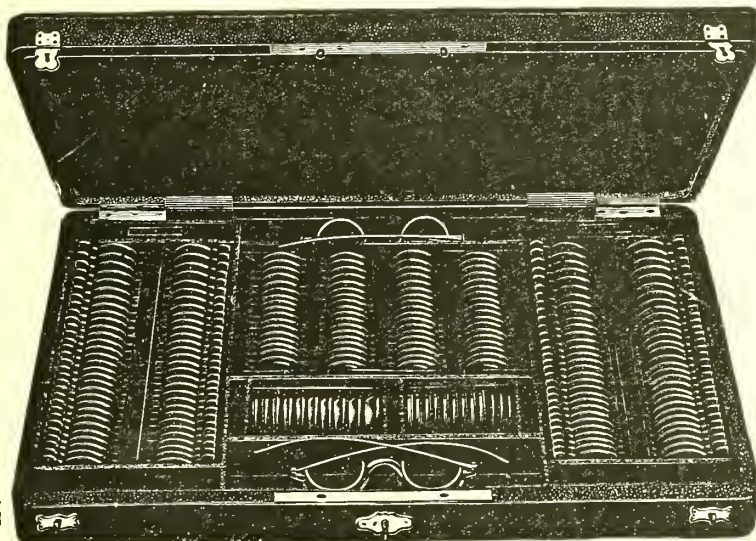
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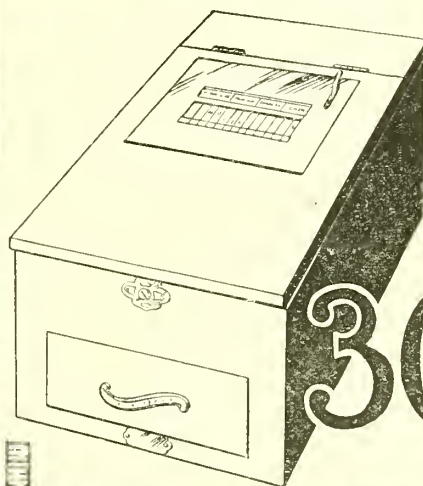
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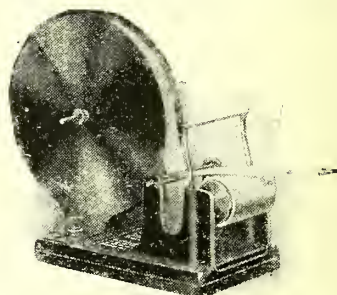
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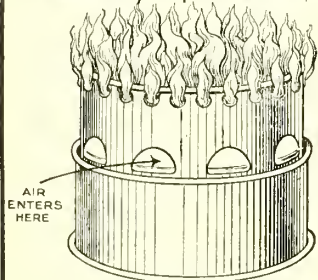
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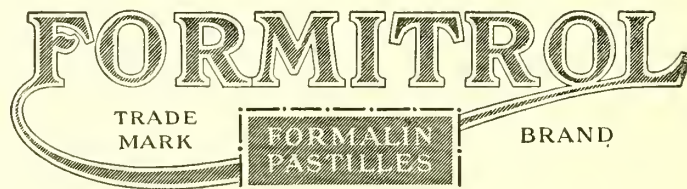
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Summary.

A specification for a student's microscope is given from the recommendations of the British Science Guild (p. 43).

A large number of decisions given by Local Tribunals under the attestation recruiting scheme are printed on p. 34 and 35.

Questions have been asked in the House of Commons regarding the export of opium and glycerin. These, with answers, are given on p. 54.

The need for economy in public and private expenditure being pressed home at the present time at meetings and the Press. We deal with the matter on p. 46.

A Proclamation has been issued prohibiting trading with certain firms in neutral countries owing to their enemy nationality or association. The list comprises over 360 firms (p. 33).

Among the deaths recorded in this issue are those of Mr. Ralph Shorrocks, the veteran Darwen pharmacist, and Mr. T. W. Newsholme, of Sheffield, Past-President of the Pharmaceutical Society (p. 43).

The demand for Indian opium is likely to be increased in the future owing to the stoppage of supplies from the Far East. A *résumé* of useful work done at the Imperial Institute on this drug is given on p. 47.

BORAX, borie acid, bichromates, cod-liver oil, acetanilide, raway-seed, cumin-seed, and shellae are dearer. Calcutta marindis, cloves, and formaldehyde are firmer. Hexamine, chloral hydrate, and ammonia sulphate are on the higher side (p. 55).

European War.

A Year Ago To-day.

(War News from the "C. & D.," March 6, 1915.)

The announcement was made that Great Britain and France had decided to stop all sea-borne commodities of whatever kind from being imported into or exported from enemy territory. We referred to the effect of this decree on enemy trade, and also on the trade of the United States. The hearing of the application for the avoidance of the urotropine trade-mark was reported, the result of which was that two months afterwards the Board of Trade ordered the mark to be removed from the Register of Trade-marks. Professor Meldola's suggestive address at the annual meeting of the Institute of Chemistry is interesting reading. Mr. E. A. Atkins appealed for pharmacists to form a Sanitary Section of the Wandsworth Battalion of the Volunteer Athletic Corps, from which germ the Pharmacists' Volunteer Training Corps sprang. Among the war experiences printed in the number was that of Mr. Desnos on a motor-boat.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

SEVENTY-SIXTH LIST.

DOWTY, Second-Lieutenant ARTHUR G., 9th Battalion South Staffs Regiment (Pioneers), and ROBERT, Royal Naval Air Service (brothers of Mr. John Dowty, chemist and druggist, Pershore).

GALLOWAY, Sergeant J. (late assistant with Mr. W. Robertson, chemist, Pitlochry), 35th Field Ambulance R.A.M.C.

ROBERTSON, Private W. A. (son of Mr. Robertson, chemist, Pitlochry), 3rd Field Ambulance Scottish Horse Brigade.

Trading with the Enemy.

A Royal Proclamation was published in the "London Gazette" of February 29, prohibiting trading with certain persons or bodies of persons in neutral countries by reason of their enemy nationality or enemy association. A Statutory List, which may be added to or varied from time to time, is appended to the Proclamation. It embraces Greece, Morocco, the Netherlands, Norway, Portugal, Portuguese East Africa, Spain, and Sweden. The Proclamation does not apply to persons carrying on insurance business in neutral countries with or through the agency of persons whose names appear in the Statutory List, or to transactions carried out under licence. With certain exceptions and adaptations prescribed by a separate Order in Council, the provisions of all enactments relating to trading with the enemy are to apply to all the persons and bodies of persons whose names appear in the list. In the Portuguese list we notice the name of J. Burmeister, Rua do Arco Bandeira, 39, Lisbon. The Netherlands list includes Bransch & Rothenstein, Heeringr, 320, Amsterdam, and Boompjas, 40A, Rotterdam; also the Chirurgische Instrumentenfabrik (v/h Loth & Stopler), Trans. L., Utrecht. The number of enemy firms on the list is as follows: Greece, 25; Morocco, 53; Netherlands, 66; Norway, 21; Portugal, 30; Portuguese East Africa, 72; Spain, 45; Sweden, 50. The Controller of the Foreign Trade Department calls the attention of houses engaged in foreign trade to the Proclamation. The Statutory List, it is stated, will be supplemented and revised from time to time. Transactions with persons on the Statutory List are prohibited, subject to the same penalties as transactions with firms in enemy countries, except in cases where a general or special licence has been granted permitting the transaction. Any application for a licence should be addressed to the Controller, Foreign Trade Department, Lancaster House, St. James's. In making application for licences it is requested that the following particulars may be given in each case: (1) The name and address of the applicant; (2) the name and address of the buyer; (3) the date of the order of the goods; (4) the nature of the goods in question; (5) the prospective date and port of shipment, if ready for shipment (marks and numbers should be given, and the name of the actual consignee); (6) whether the goods are season's goods, and, if so, when the season for them commences; (7) all other current orders from the same buyer. The envelope should be marked "Application for Licence."

Export Notices.

NETHERLANDS.—According to a Royal Decree of February 18, the Royal Decree of November 1 1916, regarding the exportation of tin has been changed as follows: The exportation of tin and tin-alloys, or materials of which tin

is the principal constituent, is prohibited. The Minister of Finance is to decide, in cases of doubt, whether tin or tin-alloy is the principal constituent of an article. This prohibition of exports includes tin-capsules and tinfoil, the exportation of which were permitted until now.

SWEDEN.—The following articles have been added to the prohibited exports from Sweden: Milk-powder, tungsten wire, boric acid, and shoemaker's wax composed of resin dissolved in wood tar.

Dearer Sugar.

The Royal Commission on the Sugar Supply announces that from February 28 the prices of sugar will be advanced by 2s. per cwt. It is not anticipated that this increase will make sugar dearer for the consumer. Retailers, it is added, are reminded that, by agreement between the Royal Commission and the representative bodies of wholesale dealers in sugar, the profit that dealers may make on their transactions is limited to the 2½ per cent. discount allowed to them on their purchases from the Commission or from refiners. Apart, therefore, from cost of carriage, retailers are entitled to expect that for cash they should receive their sugars at the net authorised prices as quoted from time to time in the market reports. These prices at present are: British cubes, 42s. per cwt.; Dutch cubes, 42s.; American cubes, 39s. 6d.; British "good" granulated, 36s. 9d.; American granulated, 37s.; white Java, 35s. 6d.; Mauritius, 35s.

Personalia.

MR. G. A. EXLEY, chemist and druggist, son of Mr. John Exley, Ph.C., Leeds and Burnley-in-Wharfedale, is a second-lieutenant in the K.O.Y.L.I., and at present is with the Royal Flying Corps in France.

MR. T. W. THEAKSTON, managing director of Prichard & Constance, Ltd., chemists, Haymarket, London, S.W., who joined the Royal Engineers last year as corporal and was recently promoted to sergeant, has obtained a commission in the 4th Battalion, Special Brigade, Royal Engineers.

Miscellaneous.

TRADERS IN CHINA.—The list issued by the Foreign Office of traders to whom goods may be exported to China includes that of Alfred John Skinn, chemist and druggist, The Dispensary, Peking.

ENEMY FIRMS.—The Board of Trade has made orders, under the Trading with the Enemy Amendment Act, for the winding-up of seventeen businesses belonging to alien enemies. The only two connected with the drug-trade that have been dealt with so far are the Rhenish Rubber and Celluloid Co. (1908), Ltd., and the Harburg and Vienna Indiarubber Co., Ltd.

GERMAN TREACHERY.—The "Melbourne Age" has been printing a series of articles on the German spy system in Australia, and makes the following astonishing statement, which is reprinted from the "Financial News":

It will be recollected that just before the war Australia was visited by the British Association for the Advancement of Science for the purpose of holding here its annual international conference. Our visitors and guests comprised the most eminent men of science from all countries in the world. Germany sent four of her most distinguished professors—viz., Dr. Albert Penck, Dr. E. Goldstein, Dr. Graebner, and Dr. Pringsheim. These learned gentlemen still lingered in the Commonwealth when war was declared. They approached the Federal Government for permission to return to Germany, representing that they were international scientists, and therefore neutrals, and that, although by accident of birth German citizens, they belonged to the whole world, and ought not to be detained. The Commonwealth Government assented to this proposition, and merely required the *savants* to take the oath of neutrality. Dr. Eugen Goldstein and Dr. Albert Penck took the oath. The former went off to Java; the latter took ship to England. Dr. Graebner and Dr. Pringsheim were more dilatory than their *confreres*, and they raised certain objections. At length, however, they took the oath. But suspicion fell on them, and their correspondence was intercepted and examined, luckily for us, before they sailed. Their correspondence proved that they were spies, and they were arrested and interned. Dr. Eugen Goldstein got away. But not so Dr. Albert Penck. The last-named professor's baggage was overhauled during his journey to Europe, under cabled instructions from the war authorities. It contained even more complete information concerning Australia's military preparations and intentions than the correspondence of Graebner and Pringsheim, and it contained in addition most excellent military contour maps of the country surrounding some of our largest capital cities—maps which could have no vestige of use for any purpose than to serve the ends of a German army of invasion. The maps and other information collected by these eminent German scientists were not the work of a day or of a month. They were of a character to prove that Germany had sent the professors to Australia to steal our dearest defence secrets from us, and to repay our hospitality by paving the way for our destruction. The professors, in short, were official German spies. When Dr. Penck arrived in England he was recognised as a German scientist who had in past years led several scientific expeditions to the Isle of Wight.

Local Tribunals Decisions.

The following cases have been decided since our last issue: **ABOYNE.**—Mr. George Alexander, Gowanbank, Alford, chemist and druggist, applied for exemption on February 25. The Clerk said he was in a certified occupation in the sense of being a person dispensing medicine under the National Insurance Act. Exemption was granted.

ACCRINGTON.—On February 25, a chemist asked, on behalf of his assistant of ten years' experience, for exemption from military service. The case was adjourned until May 20. At the same Tribunal there were two applications by students of pharmacy and chemistry in the final stages, one having arranged to sit for his Minor examination in June. Both cases were deferred until July 15.

AMBLESIDE.—Application was made, on February 19, for the exemption of Thomas Heys, employed by Mr. Lawson, Ph.C., Ambleside, on the ground that he is the chief support of his mother and sister. Exemption for two months was granted, a condition being that he should look out for a post as Army dispenser.

BOLTON.—On February 25, Alderman Cooper, J.P., Chairman of the Insurance Committee, claimed exemption for the Clerk, who is also Secretary of the North-East Lancashire and Westmorland Prescription Bureau, and also for the Registration Clerk. It was urged that the Clerk could not possibly be replaced at the present time except by obtaining someone from another office and offering a larger salary as an inducement. The Registration Clerk's work was highly technical, as he was responsible for 500,000 life cards. The cases were deferred until May 31.

BRIDGEND.—A chemist based his application for exemption on the ground that it is in the national interests he should remain in his present occupation. It is impossible, he pointed out, to get a qualified assistant to manage the business. The Tribunal granted exemption because the occupation is a reserved one.

BROMYARD.—On February 21 a chemist's widow applied for her fully-qualified manager to be exempted, as she cannot get a manager over military age. The Tribunal granted a month's postponement.

CAMBRIDGE.—An ophthalmic optician, maker of a range-finder, appealed for exemption for his chief assistant. After a long hearing the case was deferred to the Central Tribunal. **GEORGE PECK & SONS**, chemists, 30 Trumpington Street and Silver Street, applied, on February 24, through Mr. E. S. Peck, pharmaceutical chemist, for exemption for G. C. Keig, chemist's apprentice. The manager stated that the man, who is nineteen and a half, is indispensable until two young ladies in the business are sufficiently trained to take the work. Since the outbreak of war all assistants had enlisted or joined the Groups, and Mr. Peck himself held commissioned rank. A month's exemption was granted.

CHELTENHAM.—On February 24, a chemist obtained exemption for his only assistant for such time as he remains a dispenser within the meaning of the National Insurance Act.—The head of a firm of chemists applied for exemption of an assistant, on the ground that he is the only man left who knows certain parts of the business. On it being elicited, however, that there are five other assistants in the shop, the application was refused.

CHESTERFIELD.—A certificate of exemption was granted to Mr. A. T. Elliott, chemist and druggist, Whittington Moor, on the ground that he is employed in Insurance dispensing.

CHESTER-LE-STREET.—On February 24, Mr. J. W. Sterling, chemist and druggist, Birtley, appealed on behalf of William Winter, who manages his chemist's shop at Sacriston. Mr. Sterling said there is not another chemist nearer than Durham, four miles away. Applicant said he is dispensing under the National Insurance Act, and it is impossible for him to dispense for his Sacriston patients at Birtley, as the chemist must not be more than a mile away from the patient. Mr. Winter was put back ten groups—he was in Group 11—to allow Mr. Sterling to make other arrangements.

CHIPPENHAM.—On February 22 four months' exemption was granted to Mr. Henry Button, manager to Mr. J. C. Coles, Ph.C.

DUNDEE.—On February 28 a chemist's assistant applied for exemption on the ground that he is a dispenser under the National Insurance Act. The Lord Provost said they must be careful in deciding this case, because if they agreed to give exemption they might have claims from every chemist's assistant in Dundee on the same ground. The case was adjourned for a week.

ELGIN.—Two chemists claimed exemption for their assistants, who are indispensable. One of the employers said he had received a letter from the Secretary of the Pharmaceutical Society stating that chemists dispensing in connection with the National Insurance Act have been placed in reserved occupations. Captain Mackenzie, the military

representative said that if there is official authority for that statement he would not object. This case was postponed for a week, while in the other temporary exemption was granted to April.

HALIFAX.—Mr. Abraham Taylor, chemist and druggist, appealed on behalf of his son, who assists in the business and is studying for an examination. Postponement was granted until June 1.

HEREFORD.—An appeal was made on behalf of a dispenser employed by Chave & Jackson, chemists and druggists. It was stated that efforts had been made to obtain someone in his place without avail. It was urged that a dispenser is essential to the business on account of the character of the work that has to be done. The man in question does nothing but dispensing, and a person who is not qualified could not do the work except under supervision. The other qualified member of the staff could not give the time for supervising an unqualified person. An attempt had been made to obtain qualified women, but these have been taken by the Government for work in hospitals. Exemption was granted until August 1.

HULL.—A chemist's manager applied for exemption. He is doing the work of three men, it was urged, and if he is taken away the business will have to be closed and financial loss caused. The appeal was dismissed.

KENSINGTON.—A chemist claimed exemption on March 1 on the ground that he dispensed medicine under the National Insurance Act and his is a reserved occupation. His claim was refused.

KESWICK.—On February 25 the son of a chemist, who has three sons in the Army, was granted exemption while he remains in his father's business. A chemist's apprentice was granted exemption until April 30 for him to sit for his examination.

LICHFIELD.—On February 28 a chemist applied for exemption from military service of his dispenser on the ground that he is his only assistant and is fully occupied in dispensing. Applicant said that during the past year he had dealt with 12,000 prescriptions, including those for National Insurance and the local dispensary. The application was opposed by the military authorities, who contended that the applicant could employ a lady dispenser. Applicant was granted temporary exemption until March 31 to enable him to obtain a lady dispenser.

LLANELLY.—Mr. Evan Jones, chemist and druggist, applied for the exemption or postponement of military service for his son, who was in charge of a branch shop. Being a panel chemist, said Mr. Jones, he would have to give up the contract if his son went, and this would involve a big financial loss. The appeal was refused.

MAIDSTONE.—On February 23 conditional exemption was granted to Mr. Herbert Payne, Ph.C.

MANFIELD.—On February 24, Mr. P. J. Shacklock, chemist and druggist, successfully claimed exemption for his son, a qualified chemist doing the whole of the dispensing. Boots, Ltd., applied for exemption for their warehouseman on the ground that he is indispensable because his employment was largely concerned with the handling of poisonous and other drugs. The application was refused.

MARPLE.—On February 21 Mr. J. E. Robinson, chemist and druggist, applied for exemption for his assistant, Mr. John B. Smith, who is dispensing under the National Insurance Act. Six months' exemption was granted.

MILLOM.—On February 21, Mr. Peter McCulloch Eden, chemist and druggist, was granted exemption from military service on the ground that only a qualified person could carry on the business of a chemist.

PLYMOUTH.—On February 22 three chemists' assistants were exempted on the ground of their being engaged in insurance dispensing.

PONTYPOOL.—The unqualified assistant to a chemist applied for exemption on February 29. In answer to the military representative he said women assistants are unobtainable. The application was refused.

RAMSGATE.—The son of a local chemist applied on February 23 for exemption from military service on the ground that, owing to his father's ill-health, he has to manage the business. The Military Representative said that the continuance of the business is necessary in the interests of the public. Conditional exemption was granted.

READING.—Mr. Herbert Dyson, Ph.C., applied on February 21 for exemption in respect of Messrs. H. G. Sellick and V. P. Browning, assistants engaged in dispensing work. Mr. Dyson said there is an absolute dearth of assistants. The application for Mr. Sellick was refused, and in the other case three months' exemption was granted.

REDDITCH.—On February 28, temporary exemption was granted to a chemist's assistant engaged in dispensing under the National Insurance Act.

ST. ALBANS.—An application, heard on February 23, for exemption of a chemist's assistant, on the ground that

he is employed entirely in dispensing National Health Insurance and other prescriptions in connection with the business, was refused, the applicant being informed that if he felt very strongly he had a right of appeal, but must lodge his appeal within three days.

ST. HELENS.—On February 25, a chemist's assistant asked for exemption so that he could sit for his Final examination in July. The application was refused.

SEDGEFIELD.—The application for exemption on February 25 of a Ferryhill druggist on the ground that his business is necessary in the district, and that his father, mother, and sister are dependent upon him, was not granted.

SHOREHAM.—On February 28, a chemist applied for his apprentice to be exempted on the grounds of national interest, and that the work he was engaged on came under the certified list of trades. He would be twenty-one in August, and would then be able to go for his Final examination. Upon six months' exemption being granted the military representative said he should appeal against the decision.

SOUTHPORT.—On February 25, George Ball, Ltd., chemists, claimed exemption for Sydney Charles Richards, chemist and druggist and a director, who is indispensable to the firm. Mr. Richards, sen., appeared for the appellant, and said he had two sons in the business. Answering the Military Representative, Mr. Richards said he does not dispense under the National Insurance Act, but there is a good sale of poisons for agricultural purposes. The Mayor (Mr. H. Ball, who is a chemist and brother of Mr. George Ball) said practically no dispensing was done by the firm, but Mr. Richards would not admit this. Exemption was granted until May 1.

SOUTHWARK.—Boots, Ltd., claimed exemption for Robert Cooper, who, it was stated, is indispensable for the handling of drugs in bulk at the wholesale depot. The work could not possibly be done by women. Already eighty men out of 150 had joined the Forces. A month's adjournment was granted. At the same Tribunal Mr. William Ward, wholesale chemist and druggist, applied for exemption on the ground that he is an experienced man and could not be replaced. His employer declared it would take twelve months to replace him. The application was refused.

SPALDING.—On February 25, Mr. R. S. Donington, Ph.C., applied for postponement of military service for an assistant. The assistant is indispensable, and would be until at least the end of March. The application was disallowed.

SWINDON.—On February 21, Arthur Flett, Ph.C., engaged in dispensing at Chiseldon Military Hospital, claimed exemption, urging that he is in a starred occupation. His father is a chemist, and has two assistants, and if they went he would have to go home and help to keep the business together. The Lieutenant-Colonel of the R.A.M.C. had written saying he is indispensable. The application was refused.

TAUNTON.—Exemption was refused, on February 26, to a chemist's assistant engaged in Health Insurance dispensing. Colonel Woodhouse (Military Representative) stated that chemists' assistants are liable for service. The assistant's employer stated that he should appeal.

TEDDINGTON.—On February 25 a temporary certificate of exemption was granted to a chemist, as he is engaged in a reserved occupation.

WANDSWORTH.—Mrs. R. H. Youngs, who carries on a dental business at Tooting Broadway, applied for exemption on behalf of her manager, who is indispensable for the business. Since October efforts have been made to obtain a dental mechanic, but without success. A month's postponement was granted.

WHITTINGTON.—Exemption was granted, on February 24, to a chemist at Whittington Moor, on the ground that he is engaged in a certified occupation, being a dispenser under the National Insurance Act.

WORTHING.—A chemist who appealed for exemption for two men as dispensers under the National Insurance Act said that had the Government not given a guarantee to chemists that they could retain dispensers none of them would have gone on the panel. The exemption was granted.

YORK.—A chemist applied, on February 23, for exemption on behalf of his assistant, who, in addition to performing the duties of a dispenser, acts as porter. The assistant is absolutely necessary to the continuance of the business, as he is the only man left. The application was refused. The case of the son of a chemist who manages his father's business was next considered. The applicant said that the time he had taken off to attend the meeting of the Tribunal was the first holiday he had had for five years. He had taken over certain financial responsibilities. Exemption was granted.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, March 7, on which day the samples will be posted. Students' reports will be received up to Saturday, March 18. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the fifth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports*.

Chemists and Druggists' Society of Ireland.

The annual meeting of this Society was held on February 23 at 11 Waring Street, Belfast, Mr. Samuel McDowell (President) in the chair. There were also present Messrs. Samuel Gibson, J.P., W. J. Rankin, D. O. Perry, George Johnson, James Richardson, D. Taylor, F. Lindsay, J. Moffett, S. Saffern, J. Long, A. Davis, J. Macauley, F. T. Smith, J. Guthrie, A. Stevenson, H. Marshall, J. Walsh, W. Haslett, W. J. Gibson, A. R. Hogg, and S. Nevin (Hon. Secretary). Mr. Nevin read the report, which stated that the roll of members has been well maintained and new members added. During the past year no legislation has taken place affecting the drug-trade. The great war still continues and is affecting prices of drugs very much. Some commodities are difficult to procure, and prices have gone up, in some instances over 100 per cent. Members report that their business has considerably increased during the past year, but profits are not so good as when prices were lower. The trustees invested a sum of money in the new War Loan. Reference was made to the social side of the Society, and it was stated that the ninth Sir James H. Haslett Memorial Gold Medal was awarded to Miss Evelyn Briggs, Swinford, co. Mayo, who gained the highest marks at the Registered Druggists' examination in 1915. Mr. S. Gibson, J.P., presented the financial statement which was satisfactory. The reports having been adopted, Mr. W. J. Rankin was unanimously elected *President*, and took the chair. The following were also elected: *Vice-Presidents*, Messrs. Jacob Walsh, J. D. Carse, and S. Martin; *Hon. Secretaries*, Messrs. S. Nevin and R. A. Jamison; *Treasurer*, Mr. Samuel Gibson; *Committee*, Messrs. F. T. Smith (Antrim), D. A. Taylor, W. J. Busby, F. Boyle, D. Chapman, E. J. Roberts, A. R. Hogg, George Johnson, H. Marshall, Joseph Moffett, D. Manson, James Macauley, James Richardson, W. R. H. Orr, R. Spence (Castleblayney), W. E. Wilson, D. O. Perry, A. Davis, F. Lindsay, J. Long, and J. Guthrie; *Auditors*, Messrs. Perry and Gamble. A discussion took place on the question of earlier closing, and a deputation was appointed to wait on the Ulster Drug Trade Association, a requisition being signed by the members present to the Secretary of the Association asking him to call a special meeting. The deputation consists of Messrs. Taylor, Johnson, Moffett, Davis, Macauley and Nevin.—The annual social meeting followed, a number of lady friends being present. Mr. Rankin occupied the chair and welcomed the visitors. After tea a musical programme was contributed by Mrs. Martin, Messrs. A. MacDonald, S. McDowell, G. Fawcett, J. Birrell, Master J. McAlpin, and the orchestra. Miss J. Scott, A.L.C.M., was the accompanist of the evening, and was thanked for her services, as were also the other artists.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Drug Contracts.

The Camberwell Guardians have been recommended to accept the offer of the Apothecaries' Hall (the present contractors), who allow a discount of 22½ per cent. off catalogue prices, for the supply of drugs and pharmaceutical preparations during the ensuing three months, and also for 3 cwt. of pure carbolic acid during the same period at 2l. 11s. 4d. per 28 lb.

The Romford Guardians have been recommended to allow Mr. W. S. Steeples, chemist and druggist, contractor for the supply of drugs, to make the following increases in the prices of drugs during the past two months: Potass. citras (December), 5s. 6d. per lb. (contract 2s.); potass. sulphuret., 3s. 2d. per lb. (1s.); potass. citras (January), 5s. 9d. per lb. (2s.); sodii citras, 5s. 3d. per lb. (1s.); methylated spirit, 6s. per gal. (3s. 6d.); potass. brom., 1l. 10s. per lb. (4s. 6d.).

Birmingham.

The Ucal chemists are distributing a booklet concerning their preparations. Useful postal and other information is included in the booklet.

Traders should study the new local postal arrangements, which are temporarily much curtailed. The street collecting-boxes are now cleared quite early in the evening.

A passenger in a train passing Mr. Critchlow's Monument Road Pharmacy was suddenly taken ill, and was removed to Mr. Critchlow's shop, when it was found that life was extinct.

Mr. Laurence C. Tipper, of the Balsall Heath Drug and Spice Mills, has been elected Vice-Chairman of the Worcester Chamber of Agriculture, of which he has been a member for many years.

Page Woodcock's agents have paid a visit to the town and distributed from house to house a "Dream Book" interspersed with an account of the merits and uses of the famous wind-pills. An increased sale in the pills should follow.

Liverpool.

Owing to the high wages of which the labouring classes are in receipt the sale of perfumes has gone up amazingly among this section of workers. A roughly attired woman with an expensive cut-glass bottle in her hand is a frequent customer for re-fills at 1s. 6d. per oz. The sale of cosmetics is likewise growing apace in the labouring-class districts.

Under the title of "Coffee-house Babble" a bookful of racy anecdotes has just been printed for semi-private circulation in Liverpool. One of the anecdotes refers to the grievance of an Irish orator at the old coffee-house debates regarding the alleged arbitrary closure of the "indigo-mines" in Ireland. A well-informed critic, however, pointed out that indigo is not obtained from an Irish mine, but from a plant in India of the genus *Indigofera*.

The darkening-order, which, as applied to shops, is more strictly administered in this district than in most others, especially harasses chemists and druggists (1) because tradesmen enabled to close earlier seemingly resent the late closing of the pharmacies, (2) because the police are being almost persecuted by meddlers to be persistent in demanding the extinction or hooding of lights. One pharmacist received fifteen cautions on a single evening, and added 2d. to his till after his lights were lowered.

Sheffield.

In order to catch up with the pricing of Insurance prescriptions, junior assistants are being paid overtime at the Pricing Bureau.

Mr. F. Fargher, chemist and druggist, has taken over the management of the Firvale branch belonging to Mr. F. Medley. Mr. Fargher comes from the Palace Pharmacy, Douglas, I.O.M.

The many Sheffield friends of Mr. C. H. Twelves, who was formerly in business in London Road and now of Dronfield and Whittington, are glad to hear of his promotion to the presidential chair of the Derbyshire Pharmaceutical Association.

The Chief Recruiting Officer announces that he is prepared to receive from attested men appeals from those who claim to be exempt from military service owing to employment in a reserved occupation. Non-attested men must appeal to the Tribunal.

The new Chairman of the Insurance Committee (Councillor A. Neal) is well known to local chemists. For some years he has acted as solicitor in Sheffield to the Pharmaceutical Society of Great Britain. Since the commencement of the National Insurance Act he has been Chairman of the Medical Benefit Sub-Committee, and has acted as Chairman of many joint conferences of the Insurance, Panel, and Pharmaceutical Committees.

Miscellaneous.

STREET ACCIDENT.—On February 24 a signboard above the shop of Mr. W. H. Grimshaw, chemist and druggist, Blackburn, fell and injured a passer-by.

PETROLEUM ACT.—At Lincoln on February 23, Mr. J. Cuthbertson Begg, chemist and druggist, 121 Monks Road, was fined 1*l.* for storing 122 gals. of petrol in excess of the quantity for which the premises were licenced. The petrol was also ordered to be confiscated, but would be resold to defendant for 2*l.* 10*s.*

RAILWAY THEFT.—At the Guildhall, London, on February 26, Frank Reginald Innes, a police constable employed by the Great Western Railway Co. at the Smithfield goods depot, pleaded guilty to a charge of stealing bottles of soothing-syrup, infants' powders, tins of condensed milk, and other articles, valued at 7*s.* 6*d.* The goods were stolen from packages in transit by rail. Three months' hard labour was imposed.

POISONINGS.—Three fatal cases of poisoning have been reported since our last issue. A Doncaster girl took prussic acid "in ignorance of its fatal properties," and was found dead in bed. The poison had been obtained some time before for the purpose of destroying a dog. A Lambeth man killed himself with veronal and coal-gas. He barricaded himself in a room, took veronal, and turned on the gas. A Peckham soldier drank spirit of salt, and died soon afterwards in a military hospital.

SHOP THEFTS.—At Melton on February 22, two women were fined 30*s.* each for stealing from the counter of the shop of Mr. James Attenburrow, chemist and druggist, Melton. The women stole a bottle of eau de Cologne, a tin of tooth-powder, a tin of Oxo cubes, and a bottle of syrup of figs. At the same court a schoolboy was bound over for twelve months for stealing from the same shop-counter some tins of cocoa, peppermint, glycerin, etc.—At Louth, on February 24, Wm. Sylvester was fined 21*s.* for larceny at the premises of Mr. W. C. Street, chemist and druggist, Louth.

RAILWAY CARRIAGE.—Before the Pontardawe Magistrates on February 25, fifteen summonses were down for hearing against Lewis G. Lewis & Co., chemical-manufacturers, Pontardawe; Lewis H. Lewis, secretary and manager; and Gwylm Griffiths, shipping clerk, for giving a false account of oil of vitriol passing on the Midland Railway, with intent to avoid payment of tolls. Only one case was heard, and in this instance a tank-wagon was consigned as containing 8 tons instead of 9 tons 17 cwt. The company was fined 50*l.*, but the summonses against the secretary and manager and the clerk were withdrawn.

GUARDIANS AND DRUG-SUPPLY.—The Mutford and Lotherland (Norfolk) Guardians on February 22 granted a gratuity of twelve guineas to Dr. D. W. Boswell for the increased cost of drugs supplied by him in the year ended March 31.—At last week's meeting of the St. Albans Guardians a letter was read from the L.G.B. in reference to the proposal to pay the medical officer of the No. 2 District 7*l.* 10*s.* for one year towards the cost of drugs, suggesting that the Guardians should themselves undertake to provide the expensive medicines required. After discussion, the Board decided to take no further action in the matter.

THE ROYAL SOCIETY.—The fifteen candidates selected by the Council for election as Fellows include the following: Mr. E. H. Barton, Professor of Experimental Physics, University College, Nottingham; Mr. E. G. Coker, Professor of Civil and Mechanical Engineering, University College, London; Dr. G. G. Henderson, Professor of Chemistry, Royal Technical College, Glasgow, past-President of the Society of Chemical Industry; Dr. Alex. McKenzie, Professor of Chemistry in University College, Dundee, formerly head of the Chemistry Department, Birkbeck College, London; Dr. J. A. Macwilliam, Regius Professor of Physiology, Aberdeen University; Mr. J. H. Maiden, F.L.S., Director of the Botanic Gardens, Sydney, N.S.W., well known for his "Critical Revision of the Genus *Eucalyptus*" and other botanical works; Dr. H. H. Welch Pearson, Professor of Botany, South African College, and Hon. Director, National Botanic Gardens, Kirstenbosch, Cape Town; and Sir Leonard Rogers, Professor of Pathology, Medical College, Calcutta.

INSTITUTE OF CHEMISTRY.—Part I. of the "Proceedings" for 1916 of the Institute of Chemistry, issued last week, contains the report of the Council and the accounts which were submitted to the annual meeting on March 1. There is still 1,240*l.* to be raised on the Building Fund and in regard to the suspension of the examinations which it was intended should take place after January, the question is to be reconsidered in view of the fact that some candidates wish to be examined in July. A list is given of Fellows, associates, students, etc., who are serving with the Forces. Some new formulas for glass have been devised in connection with the Advisory Council on Scientific and Industrial Research.—The annual meeting was held on March 1, when the President (Sir James Dobbie) delivered an address in which he dealt with the services which professional chemists have been able to render to the nation in connection with the war. He briefly referred to the fact that in this country the title "chemist" is identified with the craft of pharmacy, but said he "did not despair of seeing the day when it would be common knowledge that, while in law all pharmacists are chemists, all chemists are not pharmacists." Sir James Dobbie was re-elected President for the ensuing year.

EARLIER CLOSING.—At a meeting of Darwen chemists on February 24, it was resolved to close chemists' shops half an hour earlier on Wednesday, Thursday, and Saturday. The new hour for Wednesday and Thursday will be 8 P.M. and Saturday 9.30 P.M.—The chemists of Cheltenham as members of the Gloucestershire Pharmacists' Association, have decided to close at 8 P.M. daily, except Saturdays (9.30 P.M.), as from March 1.—An order has been made for chemists and druggists at Brockmoor, Wordsley, and Pensnett to close at 8 P.M. on Monday, Tuesday, and Thursday, 1 P.M. on Wednesday, 8.30 P.M. on Friday, and 10.30 P.M. on Saturday; and those at St. Mary's, Kingswinford, at 8 P.M. on Monday, Tuesday, and Wednesday, 1 P.M. on Thursday, 8.30 P.M. on Friday, and 10.30 P.M. on Saturday. In the week before Easter the closing-hours are to be 8.30 P.M. on Monday, Tuesday, and Wednesday, 10 P.M. on Thursday, and 11 P.M. on Saturday; on the six weekdays before Christmas, 11 P.M., and 10 P.M. and 11 P.M. respectively on the Friday and Saturday before Whit-Monday and August Bank Holiday.—The hours mentioned in the new closing order for chemists at Hull are as follows: Monday, Tuesday, and Wednesday, 8 P.M.; Thursday, 1 P.M.; Friday, 8 P.M.; Saturday, 10 P.M.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The "Calendar of the Pharmaceutical Society of Ireland" for 1916 was published this week, having been delayed by a strike of printers which occurred when the work was half finished. The Calendar is similar to previous issues in that it contains the official registers of pharmaceutical chemists, chemists and druggists, and registered druggists, besides lists of members, associates, and pharmaceutical assistants. The Pharmacy Acts and Regulations under which the Society works are given and the examination-papers set at recent examinations. It is published at 2*s.* 6*d.*, and is obtainable from the Registrar, 67 Lower Mount Street, Dublin.

Brevities.

A destructive fire broke out on February 26 in the extensive stores of William Doig & Co., wholesale druggists, Mill Street and King Street, Belfast. The whole interior of the building was destroyed as a result of the outbreak. The loss, which is estimated at several thousands of pounds, is covered by insurance.

Mr. J. J. Fitzsimons, Ph.C., was presented by his colleagues at the Junior Army and Navy Stores, Dublin, with a suite of furniture on the occasion of his retirement from the position he has occupied for the past twenty years in the dispensing department. The presentation was organised by a Committee, including the following: Mr. H. A. Swayne, Ph.C., Mr. W. D. O'Regan, Ph.C., Mr. G. H. Hadden, Ph.C., and Mr. W. W. Bennett, Ph.C. Mr. Fitzsimons is severing his active connection with pharmacy.

Mr. W. J. Rankin, the newly elected President of the Chemists' and Druggists' Society of Ireland, is well known in the trade as the Irish representative of Blyton, Astley & Co., Manchester, and Gustav Boehm, London. He was Hon. Secretary of the Society for twenty-seven years, retiring from the post two years ago, when the members gave him a testimonial.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Aberdeen.

Dr. J. F. Tocher, public analyst for the county of Aberdeen, in the course of his annual report, remarks that altogether forty-one samples of drugs were analysed during the year 1915, under the Sale of Food and Drugs Acts. A sample of weak tincture of iodine was found to be stronger than the B.P. standard to the extent of 1 per cent. Some samples of olive oil contained traces of moisture. Four samples of tincture of opium varied slightly from the official standard. It is in the public interest, the report added, that it should be sold of the prescribed strength.

Edinburgh.

The movement for earlier closing will receive a stimulus from the lighting restrictions. Evening business in most quarters seems to have fallen considerably since the new regulations came into force.

There have been difficulties in the past in getting payment for National Insurance prescriptions which were written for Edinburgh patients by Leith doctors upon Leith forms. A doctor tells our correspondent that instructions have now been given that either form may be used, for reasons of economy, provided the name of the burgh be written by the practitioner.

The latest increase in the prices of photographic plates looks rather like, according to the retail dealers' point of view, flogging a dead horse. If, by the way, everything used in the manufacture of photographic goods has become so expensive, some economy might be effected if the manufacturers sent out a combined circular instead of each advising his customers separately.

Fifeshire.

Several former assistants of local chemists have recently been home on furlough. They have principally been engaged as dispensers in base hospitals or on hospital-ships.

A new labour problem is facing the much-worried chemist and druggist. Apprentices have caught the money-making fever, and now many are demanding a higher rate of wages. The scarcity of qualified assistants has greatly disorganised some businesses and thrown a severe strain upon employers.

Kirkcaldy windows are mostly devoted to "requisites for the soldiers." Mr. Jas. McLaren, Pathhead Pharmacy, has one window devoted to Cherry-bark cough-syrup, while a second window is filled with toilet-articles and a show of hyacinths in full bloom, illustrative of the different varieties of bulbs which he sells.

Glasgow.

Peter Petroff, of the Petrograd Society of Professors of Chemistry, who resides in Glasgow, appealed last week against two convictions for contravening the Aliens' Restriction Order. He was successful in one case, but unsuccessful in the second.

Great praise is bestowed upon the productions of the Scottish Laboratory Glass Association. The articles are equal, if not superior, to Jena glass. Under normal conditions the Association will be able to produce glass apparatus at less cost than that produced abroad, so that great developments are anticipated in the future.

The death of Dr. Archibald T. Campbell, Chairman of the Glasgow Panel Committee, took place on February 22 from blood-poisoning, contracted in the course of his medico-military duties at Maryhill Barracks. Dr. Campbell was a well-known practitioner in Glasgow, and had taken a great interest in National Health Insurance matters.

"The Chemists' and Druggists' Year-book" for 1916, which is edited by Mr. J. P. Gilmour, chemist and druggist, was published recently at 2s. by Munro & Co., Royal Exchange Square, Glasgow. It covers the same ground as the preceding volumes, and includes a directory of all the chemists in Scotland, with portraits and biographies of prominent men in the drug-trade.

On February 25 the new lighting regulations came into force in Glasgow, and "the dark seaborne city" was really dark for the first time for many years. All conversation centred round the new restrictions, and jokes about "blind" Saturday, etc., were rife. In a chemist's shop on Saturday a voluble lady was giving her experiences. "Ay," she concluded "oor yin kent fiddlin' and foolerin' aboot wi' the blinds last nicht, till a' got fair fed up. 'Ach, Jock,' sez I, 'the blinds is fine; can ye no leave them alone? Are ye feart o' the Zepplins?' 'Be Goad, no,' sez he; 'but a'm feart o' the polis.'"

French News.

(From the "C. & D." Paris Correspondent.)

WIDOWS' RIGHTS.—The French Senate adopted, on February 3 last, the proposition of M. Astier (ex-Parisian retail pharmacist and now Senator) for extending the privileges of the moratorium to the widows and orphans of pharmacists.

A ROYAL PRESCRIPTION.—A curious discovery has been made by Dr. Dorveaux, the librarian of the Paris School of Pharmacy. In an old quarto volume (1756 edition) of Lemery's "Chemistry Course" he found a manuscript giving the exact composition of the famous "elixir" with which Moncharvaux cured Louis XV. when the Monarque Bienaimé fell a victim to some gastric complication at Metz in 1744. The special interest of the discovery to Parisians lies in the fact that this copy of Lemery belonged to Louis Martin Charlard, apothecary of the Duke of Orleans, who founded in 1765 the well-known pharmacy, which still exists, No. 12 Boulevard Bonne-Nouvelle. The manuscript is doubtless in the writing of the apothecary himself. As to the formula, it is a good example of the polypharmacy of the epoch, containing twenty-four ingredients, nearly all stimulants, and many spices, a pint of Spanish wine forming the base.

OBITUARY.—M. Bourquelot announced to the Paris Society of Pharmacy at the last meeting the death of Dr. Wladimir Tikhomirov, Professor of Pharmacy and Materia Medica at Moscow University and Russian Councillor of State. The deceased *savant* is well known to Parisian pharmacists, having attended the International Pharmacy Congress held in the French capital in 1900, when he gave an interesting account of the methods by which the Chinese dealers test musk-pods—a detail he had studied at Shanghai. He was present at the closing banquet, where he returned thanks for Russia in reply to the toast of "The Foreign Delegates." He was also Russia's official representative at the Brussels International Conference for the Unification of the Formulæ of Heroic Medicaments (1902). At the 1897 Medical Congress at Moscow Professor Tikhomirov organised and presided over a Pharmacy Section.—Professor Edouard Heckel, whose death was reported at Marseilles, was born at Toulon on March 24, 1845. At sixteen years of age he entered the Toulon School of Naval Medicine and Pharmacy. After two years' study there he received his commission as assistant-pharmacist-major in the French Navy and sailed for the French Indies, where he was stationed until he came of age. In 1867 he took his diploma as first-class pharmacist and once more left France, this time for New Caledonia, an island then practically untroubled by the scientific botanist. He studied its medicinal plants and prepared the thesis which he presented when he sat for his M.D. examination on his return to Paris, "On a New *Euphorbiacea* (*Fontainea Pancheri*). His D.Sc. thesis was on "The Movements of Vegetable Life and the Phenomena of Organic and Inorganic Localisation in Animals," while his pharmacy thesis dealt with "Anatomical and Toxicological Researches on the common Mussel." After the war of 1870 he left the Navy, and became head hospital pharmacist at Montpellier and assistant-professor at the local School of Pharmacy. Five years later he accepted the post of Titulary Professor of Natural History at the Nancy School of Pharmacy, but his stay there was a short one. After a few months at the Grenoble Faculty of Sciences, Heckel obtained two professorial chairs at Marseilles, teaching botany at the Faculty of Sciences and materia medica at the School of Medicine. To these double duties he added those of Director of the Botanic Garden of Marseilles. In 1880 his contributions to science were recognised by his election to the corresponding membership of the Paris Academy of Medicine, and subsequently by a similar election at the Academy of Sciences. It was in 1892 that he founded the Colonial Institute, where he placed his collections. He specialised in the study of such tropical plants as were likely to be of value for alimentary purposes or local industry, and his name must always be associated with the introduction of kola. Febrifuges, like *Danais fragrans*, *Cassia occidentalis*, and the yellow and grey Bonducs, were subjects of his attention; the bark of the "Doundaké" has been styled the "African cinchona." The M'boundou (*Strychnos Icaja*), the fetich-poison of the Gaboon, the *Veronica nigritiana* (heart-poison), the *Sarcocaulis esculenta*, etc., may also be mentioned, while his introduction of the *Solanum Commersoni*, or Uruguay water-potato, into actual cultivation in France must not be passed over.

CHILBLAINS.—Dr. J. Flynn, Sydney, N.S.W., recommends extract of suprarenal gland gr. v., thrice a day, for chilblains.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

BUSINESS CHANGE.—Mr. L. L. Palmer, chemist and druggist, has acquired the business formerly carried on by Petersen, Ltd., at Oudtshoorn, and is moving the business which he carried on in Upper High Street to his newly-acquired premises.

PROFESSOR WILKINSON, professor of chemistry and an examiner for the Minor examination in the Transvaal, spent the Christmas vacation at the Cape. On January 28 the members of the Pharmaceutical Society met Professor Wilkinson at the Society's room, and a very pleasant evening was spent in exchanging views on educational matters.

Rhodesia.

ON ACTIVE SERVICE.—The following Rhodesian chemists are on active service in the East African Medical Service: Sergeant H. H. Heawood (late of Salisbury Hospital), Corporal H. S. Holdsworth (Smart & Copley, Bulawayo), Sergeant E. Trevor Jones (Lennon, Ltd., Bulawayo), and Corporal R. C. Kerridge (Smart & Copley, Bulawayo). The last three are members of the Pharmaceutical Society of Rhodesia, of which Corporal Kerridge was Secretary up to the time of his leaving. Sergeant Jones has had experience in the German South-West campaign as Q.M.S. in the Bloemfontein Mounted Field Ambulance.

India and the East.

(From the "C. & D." Correspondents.)

MASONIC NOTE.—At the installation meeting of Lodge "Concord," 757 E.C., Bombay, among the officers for 1916 invested were Wor. Bro. C. B. Robinson (Thomson & Taylor, Bombay) as Chaplain, and Bro. J. L. Holden (B. W. & Co., Bombay) as Steward. Pharmacy was represented, among the visitors, by Wor. Bro. R. S. Jackson and Bro. J. Fraser, of Kemp & Co., Ltd., Bombay.

INDIGENOUS DRUGS.—At the annual meeting of the Asiatic Society of Bengal, held in Calcutta on February 2, the President (Lieutenant-Colonel Sir Leonard Rogers) took as the topic of his address "Therapeutic Advances in India." Speaking of the investigation of indigenous drugs, he said that while much had been written in recent years remarkably little had been accomplished. He then proceeded to describe in detail what had been done with three drugs in order to indicate the lines on which further similar results may be expected to be obtained. Speaking of the use of quinine in malaria, he traced to its origin the rooted objection of Indian patients to take quinine, which is still met with in present-day practice. Subsequent to 1765 large doses of cinchona were given in India in the treatment of malaria for forty years, but in 1804 Dr. James Johnson arrived in the Hooghly, and as the result of the loss of a single case under cinchona he discarded past experience, and introduced copious bleedings and salivation with mercury. After his brief visit to the East he returned to London and wrote a book on the subject, and the result was that for forty years in India malarial fevers were treated with excessive doses of mercury, cinchona and quinine only being used after the temperature had returned to the normal. To Edward Hare is due the honour of the reintroduction of quinine and cinchona in 1842. In 1847 he published his results, and he was placed in charge of the Calcutta Hospital, with the result that in one year he reduced the death-rate from malaria to one-twelfth of the average rate for the previous twenty years. Sir Leonard Rogers then referred to the use of ipecacuanha and emetine in amoebic dysentery, and his own researches in connection therewith, and also to recent work done in relation to the use of chaulmoogra oil in leprosy. Speaking of the need of research-work, he said that up till two years ago they had had Dr. Hooper at the Indian Museum, an able and experienced analytical chemist, but owing to his retirement the Indigenous Drugs Committee had been deprived of one of their most valuable and essential workers, who had not yet been replaced. This was the one missing link in their work, and he hoped the vacant post would be adequately refilled without unnecessary delay.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of eight Chemists' Societies in Australia and New Zealand.

The Commonwealth.

NATURALISED GERMANS.—It is proposed, states "The Times," to disfranchise all Germans in Australia unless they prove that their naturalisation is genuine. Failure to make a full and candid declaration of their position will involve forfeiture of the right to hold land and other property.

ACETOSAL has been recommended by the Pharmaceutical Society of New South Wales as a suitable name for use in place of aspirin, which is a German trade-mark in Australia. The Retail Chemists' Defence Association of South Australia favoured the word "Sonasal." The Tasmanian Pharmaceutical Society prefer the B.P. name (acidum acetylsalicylicum).

SANATOGEN TRADE-MARK.—The Bacchus Marsh Milk Co. and the Neurogen Co. have applied for the suspension of the German-owned trade-mark "Sanatogen" and for permission to state that their products are essentially the same as sanatogen. At the hearing the representative of Wulffing, the owner of the sanatogen mark, offered to give the profits of the sale of the food to war-funds until the conclusion of the war. The decision of the Commissioner of Patents has not yet been given.

PRIZE-SALE.—An auction of goods from a detained German steamer, the *Hamm*, was held on December 10 at Port Adelaide. Forty-eight of the lots were drugs, and following the forty-eighth was a note, "All drugs manufactured by Merck." They included eight 28-lb. packages—2 cwt. in all—of salicylic acid, 500 1-oz. bottles of soluble strychnine, twelve 100-gr. bottles of iodipin, 300 bottles of medical hydrogen peroxide, 100-oz. tin of sulphate of quinine, a bottle (5 lb. net) of hypophosphorous acid, and a number of smaller items, from salol to sanatogen and shellac.

REXALL V. REXONA.—The application of Connellan, Ltd., on May 12, 1914, for the registration of the word "Rexall" as a trade-mark in respect of chemical substances for use in medicine and pharmacy was opposed by the Laxo-Tonic Pill Co., proprietors of the trade-mark "Rexona," registered on October 15, 1908. The Registrar of Trade-marks gave a decision on June 23, 1915, allowing the registration of "Rexall" on the ground alleged in declarations by Mr. J. D. Connellan, managing director of the applicant company, that the mark had been in use by the company and its predecessors in New South Wales and Queensland for ten years. The Laxo-Tonic Pill Co. denied the existence of this extensive sale and use, and produced declarations from leading distributors of proprietary medicines stating that the goods were unknown to them. The opponents stated also that the applications of the United Drug Co. for the registration of the same trade-mark "Rexall" in 1912 and 1913 were abandoned in 1914. The Registrar of Trade-marks dismissed the opposition to the registration, with seventeen guineas costs, payable to Connellan, Ltd. From this decision the opponents appealed. The Law Officer has, after reviewing the evidence, decided that there was no real usage of the word "Rexall." The appeal was therefore allowed, the Registrar's decision reversed, and the applicants were ordered to pay the opponents' 70*l.* costs.

MILITARY PHARMACISTS.—The Minister of Defence has given approval to a scheme which provides for the organisation of the pharmaceutical service of the Commonwealth military forces on a somewhat similar basis to the dental service. The main principles of the scheme provide for the appointment of a senior pharmacist in each military district, with the honorary rank of captain, whose duties it will be to select officers for positions at various hospitals, both at home and abroad. A pharmacist with the rank of honorary lieutenant is to be allotted to each general hospital in the Commonwealth, with a proportionate number of dispensers, who will be given the rank of sergeant-majors. Letters have been sent to Pharmaceutical Societies as follows:

"I have to inform you that the appointment of a senior pharmacist with the rank of honorary captain, A.A.M.C. Reserve, has been approved. This officer will assist the district municipal medical officer in the selection of pharmacists for the A.A.M.C. Australian Military Forces, and for the A.A.M.C. Australian Imperial Forces.

"The Minister for Defence has decided to raise the status of dispensers in the forces. This appointment is in consequence thereof. Would your Society submit a recommendation for the appointment of this officer as soon as possible?"

Netherlands Notes.

(From the "C. & D." Correspondent.)

German Bromides are being offered to Holland at extremely high prices, but these chemicals are offered at 2.40m. per kilo. in advertisements in German pharmaceutical papers.

Appreciation of Markham.—In the "Indische Mercur" and the "Pharmaceutisch Weekblad," February 12, Professor van der Wielen contributes appreciative articles on Sir Clements Robert Markham, the last of the pioneers of cinchona-cultivation in the Indies. A biography of Markham is given, so far as cinchona-cultivation is concerned with his life, especially in regard to his travels in South America.

Aniline-dye Supply.—A Central Committee for the supply of dyestuffs was founded on February 5, 1916, by manufacturers who use German aniline dyes. This Committee publishes a statement in the "Indische Mercur" regarding the position. The Committee is compiling data with reference to the quantities of German aniline dyes used in Holland, which the Dutch Government requires in its negotiations with the German Government regarding the stoppage of supplies.

Economy in Prescribing.—The Director of the Government Store of Medicaments, Colonel J. van Riel, urgently insists that physicians should practise the strictest economy possible in the prescribing of drugs and chemicals. In the daily papers he gives examples of the enormous advance that has taken place in the prices of some medicaments. Potassium chlorate, for instance, that used to be 0.60fl. per kilo. before the war, is now quoted at from 7.50fl. to 10fl.; potassium bichromate has advanced from 0.45fl. to 6fl. per kilo., and antipyrin from 9fl. to 50fl. This would be a good opportunity for putting an end to the excessive prescribing of medicaments on behalf of the members of sickness-insurance companies—an evil as rampant in Holland as it is in England under the National Insurance Act. The considerable advance of the prices of nearly all the important medicaments is a matter of the highest importance for the sick-funds. Under normal circumstances the payments that were made to the pharmacists of the largest sick-fund of Amsterdam (Algemeen Ziekenfonds voor Amsterdam=A.Z.A.) amounted to about the same sum as had to be paid for the medicaments. This sum was about 23 per cent. of the total revenues of the Society. In many Dutch sick-fund societies the pharmacists are paid a flat rate for each member, and are obliged to furnish all the medicaments the physician chooses to prescribe. This is the worst method of payment imaginable, as with the advance in prices it is obvious that the pharmacists receive no profits at all. If the advance in price continues all the sick-funds will be used in paying for medicaments. The sick-funds, moreover, have seriously diminished on account of the war conditions which prevail.

German Blackmail.—The great advance of the prices of medicaments of German origin (see *C. & D.*, February 19, p. 56) seems to be of a somewhat arbitrary character. The causes which have led to this extraordinary measure are not known, but the prices are so abnormally high that Dutch wholesale dealers, physicians, and pharmacists are striving to do without these chemicals. The sudden advance principally concerns synthetic medicaments, such as aspirin, antipyrin, and urotropin, which are largely used in medicine. The drugs have not, however, been prescribed very long in medical practice, so that it will be possible easily to revert to the cheaper medicaments formerly employed for the same purpose. It will be necessary for Boards of sick-funds to warn their medical officers to refrain from prescribing German-made medicaments. Abstaining from the use of the German preparations and a moderate advance of the contributions of the members of the sick-funds will meet the present difficulties. It is possible also to manufacture these medicaments in Holland, especially now that the prices have been raised so considerably, whereas formerly it would not have been a profitable venture. This war-industry would not outlive the war, but the German manufacturers will long suffer from the consequences of their attempted blackmail. In the first place, the use that is made of the medicaments concerned will have decreased after the war is over, and of those drugs which are indispensable supplies will have been obtained from other countries, with whom the orders will continue to be placed when the war is over. Professor van der Wielen, dealing with this matter in the "Pharmaceutisch Weekblad" (February 12), thinks that this measure will do more harm than good to German chemical-industry. He suggests a meeting of wholesalers, sick-funds, physicians, and pharmacists to discuss the matter.

German News.

SEALING-WAX MANUFACTURERS have advanced their prices by 25 to 30 per cent.

DR. JOACHIM WIERNIK, director of the manufactory of chemical and pharmaceutical preparations Dr. Joachim Wiernik & Co., G.m.b.H., in Neu-Köln, died recently in Berlin.

PROFESSOR DR. A. HEIDERSCHKA has been nominated ordinary Professor of Pharmacy and Applied Chemistry at the Würzburg University, in place of the late Professor Medicus.

POTASH SYNDICATE.—The sales of potash amounted to twelve millions of marks in December 1915, making the total sales during 1915 about 106 millions of marks, against 155 millions of marks during the first year of war and 192 millions of marks in 1913.

IMITATING ENESOL.—A substitute for enesol (a preparation of Clin & Co., Paris) has been prepared by E. Merck, Darmstadt, under the name of modenol. It is a compound of mercury salicylate and methylarsinic acid. Modenol is one of the "M.B.K." preparations, brought into commerce by Merck, Boehringer, and Knoll together, in imitation of well-known products.

CHEMICAL-DEALERS' COMBINE.—A "Reichsverband der Chemikalien-Großhändler Deutschlands" is being founded in Berlin. On February 5 a meeting of persons concerned was held in Berlin, with Herr Leiffert (Brückner, Lampe & Co., of Berlin) in the chair. The sudden advance of the prices of drugs and chemicals of German origin, which have all at once been quadrupled, has most probably been due to this society.

PROFESSOR DR. A. MICHAELIS, Professor of Chemistry of the Rostock University, died on January 31, aged sixty-eight. He was born in Bierbergen, in Hanover, and studied in Göttingen and Jena. In 1876 he became Professor of Chemistry in the technical academy of Karlsruhe, and later in that of Aix-la-Chapelle; since 1890 he has been Professor of Chemistry in Rostock. Many of his papers have been published in the "Annalen der Chemie," and he also wrote a book on inorganic chemistry for students.

"ARZNEILOSE TAGE"—**DRUGLESS DAYS**—are advocated in a pamphlet by A. Wilde, one of the directors of a Nuremberg sick-fund. The "Pharmaceutische Zeitung," in commenting about this pamphlet, charges the author with exaggeration, as it is ridiculous to compare meatless days, when these foodstuffs are simply substituted by others, with drugless days, on which no medicaments are to be used. Several medicaments are becoming scarce and the prices very high, but, writes our contemporary, there is a golden mean between the prodigality with which several physicians go on prescribing medicaments and the radical measure which Wilde proposes. Strict economy, practised wherever possible, is the best way of making the most of the remaining stocks of drugs.

ESSENTIAL-OIL SUBSTITUTES.—Eduard Büttner, manufacturer of essential oils, Leipzig, offers the following substitutes for essential oils of foreign origin, the prices of which vary between m.2.50 and m.100 (neroli oil): Bergamot-oil substitute (1) with from 35 to 40 per cent. of esters; (2) with from 25 to 30 per cent. of esters, for lemon-grass oil, soluble in spirit of 80°; (3) with about 50 per cent. of geraniol; lemongrass oil for technical and perfumery purposes; eucalyptus-oil substitute, easily soluble in spirit of 70°; Siberian pine-needle oil substitute, with esters corresponding to from 40 to 45 per cent. of bornyl acetate; Réunion geranium-oil substitute, lavender-oil substitute, neroli-oil substitute, palmarosa-oil substitute, spikenard-oil substitute for technical purposes, thyme-oil substitute, and Ceylon cinnamon-oil substitute.

ALCOHOL FROM MOLASSES RESIDUE.—The Commercial and Industrial Committee of the Reichstag has considered various petitions from the German spirit-industry. The Home Office had refused an application from the Union of Molasses-spirit Manufacturers for permission to make spirit from molasses residue, because such waste could be more profitably employed in feeding cattle. A similar petition has now been placed before the German Parliament, in which opposition was raised against Privy Councillor Delbrück's process for working up molasses into nutritive albumen. Science, it was pointed out, was hostile to the process, and, moreover, the industrial world had not been consulted. The request was made that permission be given to use this residual material for making the alcohol necessary for the defence of the nation, while nutritive albumens could be obtained from the waste waters of starch, sugar, and kindred factories. No answer could be given, as the Treasury is to be consulted as to the financial side of the question.

Legal Reports.

Trade Law.

Sale of Cocaine.—At Dover on February 25, Mr. Abraham Lewis Thompson, chemist and druggist, Snargate street, was fined 2*l.* 2*s.* for selling cocaine without entering it in the sale in the poisons-book as required by the Pharmacy Act, 1908. Defendant said he was unaware that cocaine is included in Part I. of the Poisons Schedule.

Altering Export Licence.—At the Mansion House, London, on February 26, George Colver, shipping clerk, was summoned for uttering a forged public document—i.e., a licence to export goods issued by the War Trade Department. Defendant had obtained an export permit for goods to go to Gothenburg, but in front of the word "Gothenburg" he added, "Copenhagen or." Defendant was committed for trial, his own recognisances in 100*l.* being accepted.

Debt-case.—In the Shoreditch County Court on February 25, before Judge Graham, K.C., an application was made by Arthur Berton, late A. Berliner, of 15-17 Worship Street, London, E.C., makers of druggists' sundries and surgical instruments, for leave to amend the name of Nobles, Ltd., to Nobles' Drug Stores, Ltd., of 2 Well Street, Cable Street, E., for a warrant of execution for 13*s.* 7*d.* On behalf of the applicants it was said that it was a clerical error which was regretted. A representative of the defendants appeared and said they only opposed on the ground that the summons had been wrongly issued as there is no such person as Berton; it is simply a limited company. Judge Graham said there is nothing in the objection, and made the amendment as requested.

Workmen's Compensation.—Judge Graham, K.C., gave his considered judgment in the Bow County Court on March 1 in the action in which Wm. Burnham, a machinist, asked for an increased award, under the Workmen's Compensation Act, against the British Xylonite Co., Ltd., Hale End, Walthamstow (see *C. & D.*, February 26, p. 45). Judge Graham said he had had considerable difficulty in arriving at a decision owing to the untruthful and unreliable nature of the plaintiff. He thought it possible he might have earned up to about 30*s.* a week, so would allow him 2*s.* a week. For some time he had been undecided as to who should pay the costs, as the respondents had so generously paid so much out for the lad, but he thought they would have to pay them. Mr. Scott Duckers, for applicant, said he considered the lad entitled to costs, as the award practically meant 2*s.* a week for life.

Platinum Needles.—The case of Bossut v. Arnold & Sons (*C. & D.*, December 18, 1915, p. 45, and December 25, 1915, p. 44) came before the City of London Court on February 28, when the reserved judgment of Sir John Paget, Bart., K.C., was read by Judge Atherley-Jones. Sir John Paget said the main contention in the part of the defendants was that the case should never have been submitted to the jury; that the contract being in writing and executed, the whole matter was concluded by the terms of the contract, and that no oral or extrinsic evidence was in any way admissible to impugn the validity or terms of that contract. He did not accept that contention. His decision was that, whether on the grounds that defendants snapped at the bargain, or that the parties were never *ad idem*, or simply as following one of the cases cited, plaintiff was entitled to judgment. It was to answer that the alleged contract had been completed. It had been in *Gill v. Macdowell*, but, as Mr. Justice Gibson said, it would be eminently unconscious that the seller should retain the price which the buyer never intended to give. So there it would be unreasonable that the defendants should retain the plaintiff's needles at a price for which, as they knew, he never intended to sell if he believed they were buying. The defendants could not return the goods, having parted with them. The parties agreed that the amount in dispute was 47*l.* 5*s.*, and he gave judgment for the plaintiff for that amount, with costs in the higher scale. Mr. Kingsbury applied for a stay of execution pending an appeal, and the application was granted.

Chemist Company's Calls.—In the City of London Court on February 25, before Judge Rentoul, K.C., the hearing was resumed of the case in which A. Sargeant & Co., Ltd., cash chemists, 70 Queen Victoria Street, London, E.C., claimed 50*l.* 16*s.* 8*d.* from Mr. Robert Leeson, chemist and druggist, 12 Ordnance Road, Southampton, being a call of 5*s.* per share on 200 preference shares in the company and interest (see *C. & D.*, February 5, p. 39, and February 12, p. 42). Mr. Moresby appeared for the plain-

tiffs and Mr. Brooke for the defendant. Defendant was cross-examined at great length, and he said that his application for shares was only conditional on the auditors' report being satisfactory, and it was never shown him. He was never told that the shares to be created were to rank after existing shares. He was to have the shares which the Chairman of the company had held, and not new ones. The charge of fraud made against the plaintiffs was partly the result of investigations made by his solicitor. He had not received any letter of allotment, and subsequently he withdrew his application for shares. He did not like plaintiffs refusing to pay his bonus of 5 per cent. on the profits of his branch. If his bonus had been paid he would not have left the plaintiff company. Before coming to the plaintiffs he had at Bristol 3*l.* 2*s.* 6*d.* a week and 5 per cent. commission, and his house expenses were 12*s.* a week. From the plaintiffs he had 2*l.* 10*s.* The business of the branch which he managed for the plaintiffs improved very much under his management. Mrs. Leeson corroborated her husband's statements. Mr. Brooke characterised plaintiffs' attempt to get defendant to take up the shares as a "ramp." The Judge found for the plaintiffs on the claim, with costs, and held that the charges of fraud made against the plaintiffs had not been sustained.

Acetate-of-Copper Dispute.—In the City of London Court, on February 23, before Judge Atherley Jones, K.C., the case of May & Baker, Ltd., v. Donald Campbell & Co. was heard, in which the plaintiffs sued the defendants for 50*l.* 18*s.* 1*d.* in respect of acetate of copper supplied. Mr. Jowitt appeared for the plaintiffs, and said that on August 16 defendants rang them up and asked for a quotation for 3 cwt. or 4 cwt. of acetate of copper. The price given to the plaintiffs was 1*s.* 9*d.* per lb. net. Defendants now said that they had bought the goods at 9*d.* per lb. No doubt some Paris green was sent them by mistake, instead of acetate of copper, and, unfortunately, some of it would not be returned because it had been used, but a portion of it was returned. Plaintiffs confirmed the order in writing at 1*s.* 9*d.* per lb., and an invoice was sent, but defendants adhered to their view that the quotation was 9*d.* per lb. Mr. Blane White, defendants' counsel, said they bought certain copper subacetate, instead of which Paris green was sent on. Subsequently acetate of copper was substituted for some of it. Frank G. Hide, plaintiffs' secretary, said it was he who arranged the transaction, and he had heard the telephone operator quote 1*s.* 9*d.* per lb., it being recorded in the telephone-book at the time. There was no record of anybody having rung up from his firm to say they had made a mistake, and that the price was to be 9*d.* per lb. Defendants at first wrote confirming the price at 1*s.* 9*d.*, and subsequently said that was a mistake. By mistake the wrong cask of Paris green was sent, instead of acetate of copper. In cross-examination, he said his claim was for 3 cwt. 2 qrs. 22 lb. of copper acetate at 1*s.* 9*d.* per lb. He had credited the defendants with 14*l.* 5*s.* 1*d.* for the Paris green which had been returned. Eightpence to 10*d.* per lb. was not the proper price of acetate of copper when it was pure. For ordinary copper subacetate the price was not 8*d.* or 10*d.* per lb.; his price was 1*s.* 9*d.* per lb. He did not know what the trade quality was. He only knew that it came from France, and that it was French verdigris. If a stranger ordered acetate of copper he would expect to get what was now in dispute. He did not know that when one asked for acetate of copper one really wanted a certain quality of subacetate of copper. Acetate of copper was a preparation very seldom required; he really delivered subacetate. Defendants evidently wanted the ordinary trade quality, used for colouring wax. About the time in question he supplied similar quantities to Lewis Berger & Sons, Ltd., Homerton, at 1*s.* 9*d.* per lb. He also sold to Bacon & Wright, of Chelmsford, to Locke, Tompsett & Co., and J. J. Griffin & Sons, at 1*s.* 9*d.* per lb., in August. The material came from Montpellier, France. Then its exportation from France was prohibited by the French Government, and they could not get any more. Further evidence was given by H. Coppen (clerk to L. Berger & Sons, Ltd.), Miss Jenkins (plaintiffs' telephone-clerk), and William T. Bruce, who said subacetate of copper and acetate of copper were in his view practically the same, and they called them verdigris. There were various qualities of subacetate, and the price of the pure last year was about 2*s.* per lb. Plaintiffs were high-class chemical-dealers, and he would not dream of going to them for rough verdigris. Mr. John Campbell, one of the defendants, said in August last he received a communication from one of his regular customers, G. Smith & Co., who asked for half a ton of acetate of copper, and they offered him 1*s.* per lb. He communicated with, among other firms, the plaintiffs, and they said they only had 3 cwt. or 4 cwt., but that they could supply that quantity at 9*d.* per lb. He thereupon booked the order, and was quite sure the lady,

in giving the quotation over the telephone, tendered 9d. per lb. He dictated the letter to his customers, and by an unfortunate accident he dictated the price as 1s. 9d. per lb., which was a clerical error. It followed that if he bought it at 1s. 9d. a lb. and was selling it at 1s. a lb. he would be losing 9d. on each pound that he bought. The following day plaintiffs rang him up and told him that he had made a mistake in his letter by putting in 1s. 9d. when the price was 9d., and he replied, "Thanks." Nothing was said to him about any special kind of acetate of copper. In fact, he did not know the article at all. Then when the goods were delivered plaintiffs unfortunately sent a portion of Paris green, instead of acetate of copper, to his customer, who naturally complained. Nearly all the conversation took place on the telephone, and, in fact, nowadays business was largely conducted in that way. The Judge: I think we might take judicial notice of that. In cross-examination, witness said he did not know when he made the purchase that the market-price for pure acetate of copper was 1s. 9d. per lb. One of the reasons why he was refusing to pay for the Paris green was on the ground of the excessive price, and because it was never ordered and caused damage. He did not know whether 11d. per lb. was excessive for Paris green. Mr. Francis Smith, of J. G. Smith & Sons, said he used acetate of copper for colouring material. Formerly he got it from Allpass, of Manchester. In August he found himself temporarily short of the material, and asked the defendants to get him some. The price quoted was 1s. per lb. When the Paris green came it was used, thinking it was acetate of copper, and he did not know that it was not until trouble occurred. He used one case of it, and it was certainly not a satisfactory substitute for acetate of copper. The Judge observed there had been an extraordinary clerical error on the defendants' part, and that there had been a muddle. It was a very unpleasant case, because there was undoubtedly a very grave conflict of testimony between the parties. There had been a mistake of memory as to what actually did take place. There had also, no doubt, been a mistake as to what was the intention of the parties. What guided him in that case to some extent (perhaps to a paramount extent) was that when there was a conflict of testimony, which existed there, he must look *de hor* and look at the circumstances or the collateral contemporary facts which should enable him to cast the balance on one side or the other. In that case he had got writing in favour of the plaintiffs. He had come to the conclusion that the testimony was in favour of the plaintiffs in reference to the acetate of copper supplied. So far as the second part of the claim was concerned, for the Paris green supplied, he was glad to think his judgment was in conformity with what would be commercial dealing. It was admitted that the goods ordered did not comprise the Paris green sued for, and on that part of the case the plaintiffs must lose. There would be judgment for the plaintiffs for 36l. 7s. 6d., with costs.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

LONDON PHARMACEUTICAL REFINERS, LTD. (P.C.).—Capital 1,000l., in 1l. shares. Objects: To carry on the business of merchants, grease refiners, etc. R.O., 84 Endwell Road, London, S.E.

SHAW & JAMISON, LTD. (P.C.).—Registered in Dublin. Capital 25,000l., in 1l. shares (8,000 preference). Objects: To acquire the business of grocers, druggists, and general merchants carried on by Shaw & Jamison at Townhall Street and Middlepath Street, Belfast. The first directors are: Mr. W. Jamison, druggist, and Mr. W. Shaw, druggist. R.O., 8 Townhall Street, Belfast.

DUCKS, LTD. (P.C.).—Capital 1,000l., in 10l. shares. Objects: To take over the business of chemists carried on at James Street, Docks, Cardiff, as "R. W. Duck & Son." The subscribers are: F. E. Duck, 24 John Street, Porthcawl, chemist; W. G. Duck, Flowergate, Whitechurch, Glam., chemist; Miss L. M. Duck, Arnciff, Whitechurch, Glam. R.O., 7 James Street, Bute Docks, Cardiff.

JOHN OAKLEY & SONS, LTD.—A final dividend of 5 per cent., less tax, is declared on the ordinary shares, making 10 per cent. for the year; and, in addition, a bonus of 5 per cent., also less tax, leaving 1,170l. to be carried forward.

SPRATT'S PATENT, LTD.—The directors recommend a final dividend of 1s. 3d. per share on the ordinary shares, less

income-tax, making, with the interim dividend of 1s. per share paid in August last, a dividend for the year of 2s. 3d. per share.

UNITED ALKALI CO., LTD.—The directors have declared dividends of 1s. per ordinary share, making 5 per cent. for the year, and 7s. on the preference shares, making, with the interim dividend, 7 per cent. for the year. The sum of 75,000l. is carried to reserve, and 46,000l. is carried forward.

ELECTRO BLEACH AND BY-PRODUCTS, LTD.—The report for 1915 states that the profits, after allowing for depreciation, etc., are 25,574l. After charging debenture interest and writing off 20 per cent. of the preliminary expenses a net profit of 22,924l. remains. The directors recommend a dividend of 7 per cent. on the ordinary shares, placing 4,000l. to reserve, and carrying forward 722l. The profit is below expectations owing to the war and failure to obtain delivery of new plant.

BORAX CONSOLIDATED, LTD.—The annual meeting was held on February 18. Lord Chichester, who presided, said that the net profits amounted to 349,357l., or 5,308l. more than the previous year. Trade in the United Kingdom had kept up remarkably well, and there was a continually increasing demand, not only for home consumption, but also for Russia, France, Japan, China, and neutral countries; in fact, of late their works have been hard pressed to keep up with the orders for borax and boric acid. The report was adopted.

Bankruptcy Reports.

Re Philip Elliott, The Willows, Bierley, late 5 Leeds Road, Bradford, Technical Chemist and Manufacturer's Agent.—The creditors are P. Elliott, Fenton, 200l., and Evans Sons Lescher & Webb, Ltd., Liverpool, 2,617l.

Re Reginald Leonard Brunson, 268 Oxford Road, Reading.—The public examination of this debtor (trading as a druggist) was continued at the Reading Bankruptcy Court on February 17. He admitted that in 1914 his receipts amounted to 475l. and his accounts showed expenditure 194l. Under examination by the Official Receiver, debtor admitted having kept money back from the accounts, and the examination was adjourned till March 16 to enable the debtor to produce a correct account.

Re Herbert Alderson Smith, 8 Boundary Road, Leicester, Manufacturing Chemist.—This debtor applied at the County Court on February 22 for his discharge (see C. & D., August 22, 1914, p. 43, and November 20, 1915, p. 39). Mr. Bennett, for the debtor, said the debtor would consent to judgment for 200l., payable at 50l. now and 2l. per month. His Honour, in giving judgment, said debtor obtained goods for which he could have no use so far as could be seen, and then for payment he handed them over to the company in satisfaction of the debt which he had imprudently taken from the company. Unfortunately, one of the firms by whom these goods was supplied was a foreign firm. The greatness of our Empire had to a large extent been built up by the reputation and on the traditions of Englishmen from time immemorial. By reason of that transaction the foreign firm were entitled to ask, "Where is now your honest English credit?" He could not grant an immediate discharge, but he would adjourn the case for one year, at the end of which time he would be prepared to consider the case again.

Deed of Arrangement.

Handley, John William Peter, 405 Halifax Road, Smallbridge, Rochdale, and Howarth Knowl, Wardle, near Rochdale, chemist and druggist. Dated February 24; filed February 26; trustee, C. E. Lewis, 3 King Street, Rochdale; secured creditors, 50l.; liabilities unsecured, 177l.; estimated net assets, 205l. Among the creditors are Ayrton, Saunders & Co., Ltd. (12l.) and Hirst, Brooke & Hirst, Ltd. (11l.).

Gazette.

Partnership Dissolved.

BARKER, C., ROOKE, W. S., and DUNCAN, N. A., Church End, Finchley, North Finchley, and Whetstone, physicians and surgeons, under the style of Barker, Rooke & Duncan

Births.

Authenticated notices are inserted without charge.

ARMES.—At 3 Portland Street, Norwich, on February 20, the wife of C. J. Armes (representing Smith & Sons, Norwich), of a son.

BEATTIE.—At 32 Hammersmith Road, Aberdeen, on February 11, the wife of A. Gordon Beattie, chemist and druggist, of a son.

CLASSEY.—At Colliers Wood, London, S.W., on February 24, the wife of H. E. Classey, chemist and druggist, of a son.

CUTHBERTSON.—At 77 McDonald Road, Edinburgh, on February 25, the wife of A. A. W. Cuthbertson, Ph.C., of a son.

McHALE.—At 18 Durnford Street, Middleton, Lanes, the wife of John E. McHale, chemist and druggist, of a daughter.

MANSON.—At 121 Comiston Road, Edinburgh, on February 27, the wife of James Manson, pharmacist, of a daughter.

STODDART.—At 10 St. Peter's Buildings, Gilmore Place, Edinburgh, on February 28, the wife of Marcus Stoddart, chemist and druggist, of a daughter.

WOODMAN.—At 39 Eastgate Street, Gloucester, on February 28, the wife of Will Woodman, chemist and druggist, of a son.

Marriages.

Authenticated notices are inserted without charge.

GLENDENNING—WALLBRIDGE.—At St. Thomas's Church, St. Helens, on February 24, by the Rev. J. W. Glendenning, M.A. (brother of the bridegroom), assisted by the Rev. E. W. Dicks, Lieutenant A. V. Glendenning, M.B., Ch.B., R.A.M.C., 3/2nd West Lanes, Wye, Kent, to Clara Beatrice, eldest daughter of Mr. J. G. Wallbridge, F.S.M.C., pharmacist, and Mrs. Wallbridge, Kensington, Liverpool.

WATERHOUSE—GRASBY.—At Gosport, by licence, on February 27, Frederick H. Waterhouse, pharmacist, H.M. Naval Hospital, Haslar, to Minnie E. Grasby, Southsea.

Deaths.

Authenticated notices are inserted without charge.

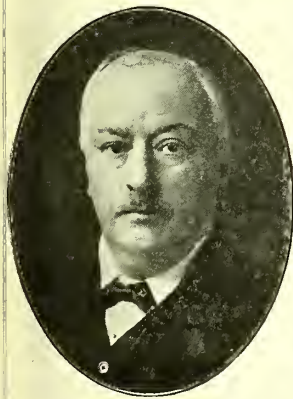
GLASS.—At Broxburn, on February 26, David Alexander, aged eighteen months, youngest son of Mr. J. C. Glass, chemist and druggist, Broxburn.

GREENSILL.—At 29 Market Place, South Normanton, near Alfreton, Derbyshire, on February 27, after an illness of six years, Mrs. Eliza Greensill, aged sixty-one, the wife of Edward Merrick Greensill, chemist and druggist.

NEWSHOLME.—At Sheffield, on February 29, Mr. George Thomas Wilkinson Newsholme, J.P., F.C.S., Ph.C., Past-President of the Pharmaceutical Society, aged sixty-three. Mr. Newsholme had been ailing for about a year, but on various occasions he recovered sufficiently to take up many of his public duties. A fortnight ago it was found necessary to perform a serious surgical operation, from the effects of which deceased was unable to rally. He died somewhat suddenly in the nursing home to which he had been removed. Mr. Newsholme was born at Settle, Yorkshire, educated at Giggleswick Grammar School, and in 1868 apprenticed for five years to Robert Fell, an old-time chemist, at Hud-

the Minor and Major examinations in 1876. On the day he obtained his Major diploma he called at Barron, Harveys & Co. (now absorbed in The British Drug Houses, Ltd.) and learnt that the business of Mr. W. V. Radley, Sheffield, a founder of the Pharmaceutical Society and a member of the Council from 1872-1880, was for sale. The business had been established by Joshua Gillatt in 1807, from whom Mr. Radley acquired it. After a few months' negotiation Mr. Newsholme purchased the business. The trade at that time included a good deal of counter-prescribing, but this part was dropped, and the business developed as a high-class dispensing and wholesale pharmacy with an aerated-water factory attached. The site of the shop has since been removed to High Street, the premises in Market Place having given way to street improvements. Mr. Newsholme's choice of pharmacy was influenced by his uncle, Thomas Bateson, Kendal, who visited Mr. Newsholme's parents at Settle. It is an interesting fact that when Mr. Newsholme obtained a seat on the Council of the Pharmaceutical Society in 1887 his uncle was also a member of Council. This leads us to refer to Mr. Newsholme's public services, which he gave without stint. He became Vice-President of the Pharmaceutical Society in 1897, and in 1900 was elected President, holding that office for three years. He was the first provincial chemist to hold the position, but there was no doubt as to his ability to fill the post, as during his Vice-Presidency he was often called upon to exercise the Presidential functions owing to the illness of Mr. W. Martindale in his year of office. He retired from the Council in 1913, the occasion being marked by a testimonial and dinner in Sheffield. He will be remembered chiefly in connection with the work he did in organising the representation of the Pharmaceutical Society. He started a campaign for improving the membership and organisation of the Society, the first fruits of which may be considered to have been the passing of the Pharmacy Act, 1898, by which chemists and druggists became eligible for membership of the Society and of the Council. Afterwards, as a result of his efforts, the old system of local secretaries was replaced by the present method of divisional secretaries arranged on the Parliamentary plan. The method has proved to be very valuable, in events that have happened since, in bringing chemists in touch with and influencing local members of Parliament. In Sheffield Mr. Newsholme played a very conspicuous part in local affairs. He was Chairman of the Board of Guardians for eight years, having been elected a Guardian in 1892. He was also a Governor of Sheffield University, and filled every office connected with the Sheffield Pharmaceutical and Chemical Society and the Sheffield Microscopical Society. His business was converted into a limited company in 1913, with himself and Mr. John Austen, Ph.C., as directors. He was so well known to pharmacists all over the country that his somewhat reserved manner but pleasant features are familiar to many of our readers. He never displayed any asperity in his speeches, and, although mild in manner, had considerable originality and forcibility in his character, which made him universally respected. Mr. Newsholme leaves a widow and three daughters. The funeral takes place at Ecclesall on Friday at noon.

SHORROCK.—At Longmarsh, Darwen, on February 25, Alderman Ralph Shorrocks, J.P., chemist and druggist, aged seventy-six. After a humble start in life, Alderman Shorrocks, on attaining the age of seventeen, apprenticed himself for four years to his cousin, Mr. Richard Shorrocks, to learn the business of a chemist and druggist. About the time Mr. Shorrocks had completed his apprenticeship his master died, leaving him to take charge of the business on behalf of the widow. Later on he acquired it, and dentistry was added in after-years. Alderman Shorrocks was registered as in business at the passing of the Pharmacy Act, 1868. He took a great interest in the North-East Lancashire Chemists' Association, of which he had filled the office of President for several years. He was also known to a wide circle of chemists from his attendance at the British Pharmaceutical Conference. Alderman Shorrocks took an active part in local affairs. He was for many years a revising assessor for the borough, for twenty-eight years a member of the Town Council, Chairman of the Slaughter-houses and Lodging-houses



MR. G. T. W. NEWSHOLME.



ALDERMAN R. SHORROCK.

dersfield, where he learned all the operations of pharmacy as practised at that time. After his apprenticeship, which Mr. Newsholme described in detail in THE CHEMIST AND DRUGGIST, January 25, 1902, he served for a short time as an assistant to Mr. Charles Jones, Birkenhead, and then entered the South London School of Pharmacy, passing both

Committee, and Vice-Chairman of the Health Committee. He filled the office of Chief Magistrate in 1907. Other activities were in the direction of athletics, horticulture, and the Choral Society, and he was an ex-President of the Darwin Literary Society. He had been connected with the Belgrave Sunday-school for over sixty years. His daughter, Miss Mary Shorrock, is a pharmaceutical chemist, having qualified in 1897.

HOPPER.—On February 24, Norman Frederick, son of Mr. J. H. Hopper, chemist and druggist, 123 Wandsworth Bridge Road, Fulham. He was educated at the City of London School, and matriculated from there last September. The following month he joined his father in business, but was suddenly seized with pulmonary tuberculosis, which rapidly developed to a fatal issue. Young Hopper was a bright and keenly intelligent boy, and much sympathy will be felt for his father, who is well known in the trade for his work in connection with the Society of Chemist-Opticians. The funeral took place at New Fulham Cemetery, Sheen, on March 2.

SOMERVILLE.—At New Brighton, Mr. William Alexander Somerville, chemist and druggist. Mr. Somerville passed the Minor in 1885, and had done good work in connection with the Birkenhead and Wirral Association of Pharmacists, having filled the offices of Secretary, Treasurer, and Vice-President. He was buried in Wallacey Cemetery, among the pharmacists present being Messrs. Cooling (President of the Birkenhead and Wirral Association), Govier, Peirson, Tottle, Newcombe, Sturt, Wherly, Griffiths, Robinson, and Wellings.

Killed in Action.

GRAHAM.—Rifleman James A. Graham, 15th Royal Irish Rifles (N. Belfast Regiment), son of Mr. Hugh Graham (Grattan & Co., Belfast), has been killed in action in France.

Died on Active Service.

LOY.—Private Edward Loy, a former employé of Boots, Ltd., Silver Street, Bury, has died as a result of sunstroke while training at Southport last summer, aged thirty-four. He has left a widow and two children.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. T. C. CORNWELL, Ph.C., Hanley, has been elected a Vice-President of the North Staffs Traders' Association.

MR. J. W. GOLIGHTLY, chemist and druggist, Pudsey, was elected President of the West Yorkshire Federated Chamber of Trade at its annual meeting at Bradford on February 16.

MR. C. J. WAIN, Ph.C., Newcastle-under-Lyme, Mr. J. W. Golightly, chemist and druggist, Pudsey, Mr. C. J. Taylor, Ph.C., Cheriton, Mr. W. Edmondson, chemist and druggist, Kendal, and Mr. W. E. Goff, Ph.C., Dartford, have been appointed members of the Local Tribunals under the Military Service Act.

AN appreciation of Professor Evgrav Stepanovich Fedorov, the Russian crystallographer, appeared in the "Times" on February 26. The article was by Mr. T. V. Barker, Oxford University lecturer in chemical crystallography.

At the annual meeting of South Shore (Blackpool) Traders' Association on February 24, Mr. D. J. Bailey, chemist and druggist, was appointed a Vice-President for the ensuing year, and Mr. J. W. Hubbard, chemist and druggist, was elected on the Committee.

MR. ALFRED BIRD, M.P., has been appointed Deputy-Lieutenant of the county of Warwick. He is the eldest son of the late Alfred Bird, Ph.C., F.C.S., who for many years carried on a pharmacy and analytical practice in Worcester Street, Birmingham.

MR. ALFRED PHILIP GARLAND, Ph.C., and Mrs. Garland, 65 Granville Road, Blackburn, have celebrated their golden wedding. Mr. Garland, a native of Tewkesbury, is seventy-seven years of age, and went to Blackburn forty-nine years ago. He was for over forty years in business in King William Street, retiring a few years ago.

MR. J. A. WATSON, A.C.G.I., A.I.C., has been elected a Fellow of the Institute of Chemistry. He is in charge of a department at The British Drug Houses, Ltd., manufacturing pure chemicals. Mr. A. J. Somer, an assistant in the B.D.H. analytical laboratory, has passed the Intermediate examination of the Institute of Chemistry.

MR. J. A. HUGHES, Ph.C., F.C.S., writing in regard to the obituary notice of his late father in the *C. & D.*,

February 19, informs us that his father passed the Minor examination in 1859 and established the Abercorn business in 1864. Mr. J. A. Hughes was described in the same note as a chemist and druggist, whereas he has also passed the Major examination.

MR. THOMAS J. WISE, of Mr. H. Rubeck, essential-oil distiller, 59 Mark Lane, London, E.C., who is the owner of one of the finest private collections of first editions of British authors, and one of the best authorities in this country on books and their writers, has sent some of his rarities to the forthcoming Red Cross sale at Christie's, including not only a fine copy of Byron's "Hours of Idleness," 1807, in the original boards, and D. G. Rossetti's own signed copy of Swinburne's "Atalanta in Calydon," but also examples of his own privately printed editions of "Love Letters of Charlotte Brontë to Constantin Heger," Swinburne's "Study of Victor Hugo's 'Les Misérables,'" and two by George Borrow, "Finnish Arts" and "Queen Berngerd," etc.

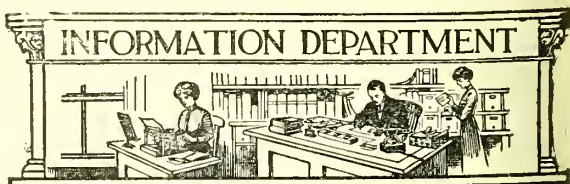
Wills.

PRIVATE LEONARD NEEDHAM, Grenadier Guards, of Chelsea Barracks, London, S.W., who was killed in action or died of wounds between October 8 and 17 last, left estate valued at 785l. 16s. 9d.

MR. WILLIAM CORBETT ARKELL, The Close, Fairford, Glos., chemist and druggist, who died on December 30 last, aged eighty, left estate of the gross value of 16,532l., of which 11,914l. is net personalty. Probate of his will has been granted to his widow, Mrs. Sarah Margaret Arkell, of The Close; his daughter, Miss Margaret Elizabeth Arkell, of The Close; and his son, Mr. Harry John Arkell, of 79 St. James's Avenue, Beekenhams, Kent, mining engineer.

MR. BENJAMIN PARKER, chemist and druggist, Shelton, Stoke-on-Trent, Staffs., who died on September 9, left estate valued at 9,894l. gross, with net personalty 527l. After making various bequests, he left the residue of his estate upon trust for his wife during widowhood, and in the event of her re-marriage 30s. per week during the remainder of her life, and subject thereto his residuary estate upon trust for his son Thomas and his issue, with other remainders in the event of the failure of these trusts.

SIR HENRY ENFIELD ROSCOE, F.R.S., 10 Bramham Gardens, South Kensington, and Woodcote Lodge, West Horsley, Leatherhead, who died on December 18, left estate of the value of 44,871l. 10s. 11d., with net personalty 44,787l. 15s. Probate of the will is granted to Miss Lucy Theodora Roscoe, the daughter; Charles Edward Mallett, 4 Queen's Gate Gardens, London, S.W., son-in-law; and Francis Ogilvy, Wisio Hill, West Horsley. The testator gives 500l. the furniture and indoor and outdoor effects at Woodcote Lodge, his gold medals, and both his residences to his daughter, Lucy Theodora; 50l. each to the other executors; 50l. to his sister, Harriet Enfield; 500l. to Emily Louisa Gumpart; and legacies to his servants. The residue of the estate is left in equal shares for his daughters, Margaret Mallett and Lucy Theodora.



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words).
Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

- | | |
|---|--|
| 134/29. "Aries" anti-vermin body belt. | 147/49. "Essencia Coronada." |
| 145/37. "Ozomint" tooth-paste. | 146/66. Address of the Per-oxygen Co. (? Norwich). |
| 145/71. "Berino," said to be a remedy for epilepsy. | 148/21. Makers of medicine-chests and cases in mahogany and morocco leather. |
| 146/47. "Shoto," a preparation used in Cambs. to keep foxes away. | 148/52. "Peru Foam." |
| 148/10. "Thymolescolene" mouth-wash. | 148/11. Hematite crystals: first-hand supplies. |
| | 149/34. "Cissenza." |
| | 149/33. Pynolaxin. |

Observations and Reflections.

By Xrayser II.

Sir R. A. Robinson's Address

was admirable throughout, and well deserved the encomiums it received from subsequent speakers, but in saying this I make a reservation with respect to one word, for I abate nothing of anything I have previously said of pharmacy as a profession. Let us carry it on as far as possible in a professional spirit, and by all means let us educate ourselves so as to be worthy of professional status, but a profession, in the sense in which law and physic are professions, pharmacy is not in this country, nor, strictly speaking, anywhere else that I know of. We have only to glance at the statutes protecting the professions of law and physic to assure ourselves of that fact, so far as we are concerned. Even the dispensing of physicians' prescriptions is essentially an act of trade, and this is precisely why physicians decline it. Just as (if I may use such an illustration) the Apostles of old thought it not reason to leave the ministry of the Word and serve tables, so the better class of doctors think it unfitting for them even to appear to trade in physic. The strength of our position as claimants of the sole right to dispense lies just here, and to agitate for professional honours for work the "profession" regards as unprofessional is, to say the least, a tactical mistake. I admit that pharmacy has its professional aspect. The term "professional" as applied to it is, however, only a sort of

Courtesy Title,

which the recipient does well not to insist on, though he strive to deserve it, while to exploit it for gainful or merely personal ends proves him unworthy of it. To improve the position of pharmacy is an end for which every individual pharmacist ought to strive, and Sir R. A. Robinson tells us how we should do so. We should certainly not do it by imitating the great companies, who are among the worst obstacles in our path, and whose methods are quite fatal to that sense of personal responsibility which is the pharmacist-proprietor's sheet-anchor. The three things needful for the elevation of pharmacy are education, character, protection. The first two depend upon ourselves, and possibly they may in time secure the last, without which they, of the first importance though they are, will never give us that "assured position" which pharmacy ought to have. Whether it be regarded as a professional position or not matters little. I will not dispute further about words, but who ever heard of a wholesale doctor or a retail lawyer? Let us contend for essentials, and face facts.

"The Boycotting of Neutral Goods"

is a phrase I do not like; it suggests a passive hostility which is far from our thoughts. In present circumstances we ought to feel bound to give preference to home-made goods whenever possible, even at the cost of some immediate personal loss, but that is a different matter, though the effect on imports might be much the same. But would such preference on the part of individual buyers be enough? I fear that patriotism, and even commonsense, cannot be trusted in such a matter; say what we will, many people will buy as cheaply as they can, whatever the source of supply, and I gravely doubt whether some of our home industries can be saved without Government intervention. Such intervention, either in the form of bounties or some measure of protection (the former preferably), certainly seems to be demanded in the case of industries

that have been or will be crippled as against foreign competition by Government action of another kind. It is neither just nor expedient that, by commandeering essential articles or by controlling firms in any way, Government should place such firms at a permanent disadvantage. That this is likely to be the case with the soap-trade is clear; there is not only the present loss of business to be faced, but the prospect of losing markets that may never be fully regained, and there are other trades of which the same is true. It is absolutely necessary, too, that we should be made independent of Germany; at any rate for the supply of chemicals. In short, the whole question of our commercial and fiscal policy is bound to be reconsidered as a consequence of the war, and we must be prepared to "swallow formulas."

Tinct. Actææ Racemosæ,

when introduced into the British Pharmacopœia as tinct. cimicifuge, was of the same strength as the one which is the subject of your last week's "Retrospect." Actææ racemosa is one of those drugs which had to wait a long time for official recognition. First made known in 1696 as *Christophoriana Canadensis racemosa* (the reference being to its resemblance to haneberry, or St. Christopher's herb, which Tournefort called *Christophoriana vulgaris nostras racemosa*), it was recommended by Colden in 1743, and introduced into medical practice in America in 1823, but did not, says "Pharmacographia," begin to be used in England until about 1860, or six years before the original date of your paragraph. Rennie, however, speaks of it much earlier (it is true as "an American plant"), and says, "It is recommended as an excellent expectorant, antispasmodic, and diaphoretic." It would thus seem to have been known here fifty years at least before it found its way into our Pharmacopœia. The name actææ, given to it by Linnæus, was, I suppose, exchanged for cimicifuga to avoid confusion with *A. spicata* (baneberry), an adulterant of black-hellebore root. The new name is not a very savoury one if, as I presume to be the case, it refers to the "Cimices," which, as Bacon says, "are found in the holes of bedsides." We know them now by a shorter name.

Hebrew Medical Lore

is the subject of a very interesting article in "Notes and Queries" called forth by a reference to what is said under the head of "Pharmacy in the Bible" in Wootton's "Chronicles of Pharmacy." Wootton's list of drugs mentioned in Scripture comprises balm of Gilead, incense (the ingredients of which are given as olibanum, stacte, galbanum, and onycha), olive oil, manna, bdellium, aloes-wood, myrrh, wormwood, hyssop, juniper, Jonah's gourd, wild gourds, horse-leeches, nitre (natron), mustard-seed, vinegar, dill, mint, anise, cummin, saffron, pomegranates, spikenard, figs, and mandrakes (dudaim); but as regards the greater part of these the reference is not to their actual use as drugs, and Wootton says that in the whole Bible there is no distinct mention of the internal use of any drug. To his list the writer in "Notes and Queries" adds from the Talmud, which, of course, reflects the medical lore of a later age, garlic or onion, camphor, rye, mallows, *morour* (either dandelion or horseradish), ceratia (carob bean), caraway, flax, ginger, seaweed, pistachios (or terebinth), lettuce, endives, tansy, nettles, capers, lentils, sumach, mushrooms, cress, palm-trees, opium, cinnamon, raisins, poppies, and Egyptian beans; but only of comparatively few of these is their distinctively medicinal use mentioned. A few other undoubted drugs are, however, referred to as not having come under this writer's notice though they are mentioned by others. Among these are hemlock, rue, nightshade, camomiles, lupines, and castor oil. Earlier in the article sesame appears to be confused with the castor-oil plant as the source of "oil of kik." Magic, charms, witchcraft, amulets, and incantations are stated to have taken precedence over medicine proper, though science is said to have won in the long run. Prevention rather than cure, sanitation, diet, and surgery—these are claimed as distinctive of Hebrew medical practice in Talmudic times.



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Editorial Articles.

The Need for Economy.

The first duty that at this moment is laid on the conscience of every patriotic citizen of this country is to practise the most rigid economy and to cut down every form of superfluous expenditure to the narrowest possible limits that it is possible to do.

THE Prime Minister recently used these words in the House of Commons, and it is hardly necessary to enforce the lesson further in face of the fact that this country is spending about four and a half millions a day on the war. One way of lessening the burden of this huge expenditure is to prevent waste in public and private life. The Civil Service estimates which are to be discussed this week show economies over the previous year's expenditure of about three and a half millions. A notable decrease is shown in many items. For example, the estimate for the National Health Insurance Joint Committee is 203,709/., against grants in 1915-16 of 618,275/. This week has also been issued the final report of the Committee on Retrenchment in the Public Expenditure, in which further suggestions are made for economising. These include recommendations on a variety of subjects. Those dealing with the National Health Insurance are as follows:

Arrangements should be made to reduce the number of Health Insurance Commissioners.

A special inquiry should be held into the cost of the Insurance Commissions' staffs, particularly in the case of the Welsh and Irish Commissions.

Extra-statutory grants to Approved Societies, etc., outside the principle of Insurance, should be closely restricted.

A special inquiry should be undertaken with a view to the simplification of the Insurance Act.

It is interesting to note that the cost of central administration per 1,000 insured persons varies considerably. It is 28/ in England, 36/ 14s. in Scotland, 51/ in Wales, and 59/ 14s. in Ireland.

Other methods of compelling economy are to place restrictions in the way of purchasers by taxing luxuries, as has been done in the case of foreign-made motor-cars and musical instruments, or by producing an artificial shortage of supply, as in the case of sugar, paper, etc. The supplies of sugar are being diminished so that purchasers will be compelled either to exercise economy or to go without sugar. We gave in our issue of February 19 (p. 45) a list of the other commodities which are not allowed to be imported without a licence, the double object being to economise on freightage and to restrict imports. In the case of paper-making materials, it will be noted that as only a smaller quantity will be available there is no possibility of obtaining the same amount of paper as before. There is, therefore, no alternative but to use less. As we pointed out on a previous occasion, wrapping-paper must be used less freely; and in many pharmacies this can easily be effected. More use should also be made of the counter-bills sent out by the makers of proprietary articles—until the supply is restricted owing to the scarcity of paper and the increased cost. It should be remembered that advertising-matter, such as counter-bills and showcards, sent out by wholesalers is costing about double what it did in the *ante bellum*

period. By preserving for another occasion the show-ards used in a window-display, a great saving will be effected in this item alone. A superabundance of printed matter, supplied freely, has led to much waste in the past, and economy now does not mean the use of soiled howcards. In the production of THE CHEMIST AND DRUGGIST many difficulties are being caused by the restriction of the paper-supply, apart from the enhanced cost of paper and the impossibility of obtaining the same qualities as hitherto. We do not desire to burden subscribers with a recital of our woes, but some of the effects are sure to be noticed. By omitting for a time the weekly "Buyers' Guide," and by other changes, it is hoped to effect sufficient economy of space to meet the Government requirements without diminishing the value of the journal as the organ of the drug-trade. We may be compelled to exercise still greater compression in the news sections, but in this case, by a judicious employment of disintegrating agents, as in the manufacture of compressed tablets, we hope to avoid insolubility or heaviness. All these minor difficulties are part of the price of war, but they will be cheerfully borne by all in the certain hope of the crowning victory which the future has in store for the Allies.

Indian Opium.

THE prospect of obtaining regular supplies of Indian opium for British makers of the alkaloids was dealt with at length in our issue of April 24, 1915 (p. 88). It is a matter which the Imperial Institute authorities have been investigating for several years past, and the results of their observations, having now been completed, are given in a lengthy and exceptionally interesting monograph in the current issue of the "Bulletin," no fewer than forty pages being devoted to the subject. Firstly, the composition of Turkey and Persian opiums is dealt with; then follow the pharmacopœial requirements for opium in different countries, its value in medicine, the industry in India, and the results of examination of Indian opium, which date back to 1896. At that time the possibility of employing Indian opium in European medicine was discussed, but the Government of India were then of opinion that any attempt to introduce Indian opium into Europe might prejudice the existing trade with China. The question lay dormant until 1907, when it was again revived in view of the restrictions imposed on future trade with China, and it was proposed to submit to investigation samples of opium from the chief districts of India, this meeting with the approval of the Indian Government. The investigation has involved the chemical examination of a large number of samples (over 100), some collected in 1896 and others in 1909. The samples collected in 1896 were examined chiefly to ascertain how far the practice of removing from the opium the "pasewa," a watery fluid which accompanies the opium as collected under certain climatic conditions, and the subsequent operation of partly drying the opium by exposure on porous earthenware, may be responsible for loss of alkaloid; and, in the case of Malwa opium, whether the treatment by immersion in linseed oil, which is peculiar to Central India, is prejudicial to the quality of the opium. The results on this point are inconclusive, as they indicate that the removal of the "pasewa" is responsible in many cases for a loss of alkaloid, while in others the opium containing "pasewa" gave the lower percentage of alkaloid. From the samples collected in 1909 it is now shown that about half of the opium represented could be substituted for the best Turkey and Persian

opium employed in European medicine, while in addition 25 per cent. more could be used for special medicinal purposes for which a smaller proportion of morphine in the opium is sufficient. It has been found that some Indian opium is exceptionally rich in alkaloids; nearly all of it could be used for the extraction of morphine, and some of it is also particularly suitable for the extraction of codeine. The following table summarises the percentages of morphine in the samples examined:

Morphine contained in the Dried Opium	Number of Samples
14 to 15 per cent.	2
13 to 14 "	3
12 to 13 "	3
11 to 12 "	8
10 to 11 "	5
9 to 10 "	14
8 to 9 "	24
7 to 8 "	16
6 to 7 "	9
5 to 6 "	11
4 to 5 "	6
3 to 4 "	1
Total number of samples	102

The average amount of morphine in 50 per cent. of the samples was as much as 10.26 per cent.; consequently one half of the samples from the various opium districts—Punjab, United Provinces of Agra and Oudh, Rajputana, Bihar, and Central India (Malwa portion)—could be utilised as medicinal opium containing 10 per cent. of morphine. A further 20 per cent. of the samples contained 7.5 per cent. or more of morphine, and could be used medicinally for the purposes restricted to opium containing this minimum amount of morphine. There were thus only 30 per cent. of the samples which contained insufficient morphine to justify their use for medicinal purposes in the United Kingdom. The amount of codeine in the above 102 samples varied from 2.18 to 4.04 per cent., the average being exactly 3 per cent.

At the present time there is an outlet for Indian opium in London, and a fairly considerable quantity has already passed into the hands of the alkaloid-makers, who buy it at a price determined on the amount of morphine and codeine present. If the trade is to become a permanent one, however, after the war, when Turkish and Persian opiums may again be available, it will be necessary to encourage the trade by producing and cultivating the varieties of poppy yielding the most alkaloids.

Chemistry and Pharmacy.

PHARMACEUTICAL FELLOWS of the Chemical Society will have noticed with satisfaction that Mr. Chas. Alex. Hill, B.Sc., has been nominated for a seat on the Council of the Society. We trust that this means a restoration to the old and intimate relation between pharmacy and chemistry which was observed in the Chemical Society until comparatively recent years. Indeed, Michael Carteighe, Theophilus Redwood, and John Williams were pharmacists who, among others, and at different times in the Chemical Society's history, had seats on its Council because they were pharmaceutical chemists of distinction. So is Mr. Hill, and we trust that his service as a Councillor may restore the old association. It is right to observe, however, that the Society has never been without a pharmacist on its Council in one capacity or another. At present two of its past Presidents are pharmacists—Dr. Emerson Reynolds and Sir W. A. Tilden—although it is many years since either struggled with pestle and mortar. On the Council is Dr. George

Senter, an old Bell scholar, who is also a pharmacist; and pharmaceutical chemistry is also to be represented on the Council by Dr. F. L. Pyman, Director of the Wellcome Chemical Research Laboratory, whose predecessor, Dr. Power, would also have been a member of the Council, but his American citizenship debarred him.

Duty-free Spirit for Hospitals.

THE conditions under which duty-free spirit might be supplied to hospitals are to be considered by a Departmental Committee appointed by the Treasury. It is suggested, states the "Lancet," that the grant shall be fixed by reference to (1) a fixed standard consumption per patient based on the actual consumption in a standard year previous to the appointment of this Sub-Committee; (2) the rate of duty on spirit current during the year in respect of which the grant is made; and (3) the number of patients treated in the year, also in respect of which the grant is made. The difficulty experienced in defining a hospital appears to have been overcome by providing "that the institutions to participate in the grant shall not include any institutions carried on for purposes of gain." The misgivings expressed as to the possibility of abuse arising out of the grant do not appear to be well founded, continues our contemporary. At all events, the supply can be regulated with the greatest ease, and this would rule out any question of unlimited use. The Revenue authorities could regulate the supply, it is suggested, as they do in the granting of absolute alcohol for research-purposes, allowing only a certain amount per annum and a certain amount of stock to be kept at any one moment. A relaxation is also urged of the conditions under which alcohol is employed in chemical manufactures, but it is difficult to see what further facilities can be given in this direction.

British-made Microscope.

A SUB-COMMITTEE of the British Science Guild has reported on the standard types needed for the development of the British microscope-trade. Three types of microscopes are referred to—(1) a cheap instrument under 10*l.*, for the use of students; (2) a good instrument for advanced pathological work, price 15*l.* to 20*l.*; and (3) an instrument designed especially for research-work, price 25*l.* to 35*l.*—the character of this to depend on the individual requirements of the different workers. The specification for the student's microscope is as follows:

1. *Stand.*—The modified Continental type, with jug handle; with spiral rack-and-pinion coarse adjustment.
2. *Tube.*—Short, with graduated draw-tube, allowing for length of nosepiece; the available tube length should be from 140 mm. to 180 mm.
3. *Fine Adjustment.*—Lever type. Lateral milled heads.
4. *Stage.*—Large, square, fair-sized opening, provided with clips of simplest type, having points of contact level with equator of stage.
5. *Mechanical Stage.*—Not required, but provision made for its later addition.
6. *Sub-Stage Condenser.*—Abbe type, accurately centred and fitted with iris diaphragm.
7. *Nosepiece.*—Dust-proof. Position of objectives marked on nosepiece.
8. *Objectives.*—Two, of focal length 16 mm. and 4 mm. (or their equivalents), the latter with good working distance, both engraved with focal length, N.A., tube length and initial magnification.
9. *Oculars.*—Two, of focal length 40 and 25 mm. Each ocular should be engraved with the initial magnification, which should be arrived at by dividing 160 by the focal length of the eyepiece.

The microscope should be capable of carrying the additions required for more advanced work.

A note by the Sub-Committee emphasises the importance of uniform quality of the lenses employed. It is

stated that the popularity of Continental microscopes depends on (a) the remarkably high and uniform quality of the lenses; (b) the fact that makers will renovate and repair lenses for an indefinite period, and will make good any deterioration due to spontaneous changes; and (c) the uniformly good workmanship and cheap prices. The standardising of British microscopes which should be the outcome of the work of the British Science Guild should result in the production of models to replace entirely Continental-made microscopes.

The Virtues of Infusions.

THE "British Medical Journal" indulges in a rhapsody regarding the French *penchant* in the use of fresh infusions in medicine:

Instead of ordering "mist. alb.," the French doctor administers some Epsom salts or sodium sulphate in a hot infusion of senna, camomile, vervain, peppermint, or lime-flower, with, on the whole, much more satisfactory results. In many parts of England a decoction of poppy-heads and camomile is commonly employed as a fomentation for injured limbs, and its first-aid use is cordially recommended by the doctors, since, if it does nothing more, it secures cleanliness of skin. Let us, then, administer the bromides in a fresh infusion of valerian; nitre or ammonium acetate in a hot infusion of marshmallow, cough-grass, or pellitory; expectorants in a decoction of tussilage, pine-buds, or serpentary; and a diuretic of potassium acetate in an infusion of elder-flowers, saponaria, or borage. A cupful of hot vervain or camomile after dinner is an excellent carminative and facilitates digestion, and there are still people who like these draughts.

If, as our contemporary surmises, it is the ingestion of large quantities of hot water, taken as infusions, that exerts a salutary diuretic and diaphoretic effect, the case would appear to be met by ordering each dose of a mixture to be taken in half a pint or so of hot water.

Restrictions on the Sale of Poisons.

THE "Lancet," commenting on the Folkestone cases where cocaine was sold to soldiers by two persons not chemists, and on the cases in London where morphine and cocaine labels were supplied to purchasers without observing the formalities of the Pharmacy Acts, states that it is clear that the provisions of the Pharmacy Acts are totally inadequate to prevent soldiers from obtaining narcotic drugs. Further restrictions on the sale of poisons are asked for:

In the Folkestone case the authorities had to utilise the elastic provisions of the Defence of the Realm Act to punish the offending sellers, and if it is found that the publicity given to the proceedings in London fails to convince the statutory vendors of poisons that it is a thoughtless and unpatriotic thing to supply habit-forming drugs to soldiers ignorant in medical matters, the authorities may promulgate an Order making it an offence for chemists to sell morphine or cocaine to persons they know to be soldiers, and an offence for soldiers—except, of course, officers of the Royal Army Medical Corps—to attempt to procure the drugs. In nearly every other civilised country these poisons can only be sold, even in peace time, on the written order of a medical practitioner, and if similar legislation were embodied in an emergency order in this country, at any rate for the period of the war, it is difficult to see what hardships would be involved, but easy to realise the benefits that would result.

The case which the "Lancet" makes out is not a strong one, as it is founded mainly on the sale of cocaine in the Folkestone case, where the poison was sold illicitly by persons who were not "statutory vendors." The London cases also, it may be observed, were not "awful examples," as most of the provisions of the Pharmacy Act were fulfilled. On the other hand, nobody has attempted to defend the omission of that part of the existing stringent regulations for the sale of poisons which formed the charge against the London defendants.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held at 17 Bloomsbury Square, London, W.C., on March 1. Mr. Goode, who was co-opted a member at the last Council-meeting, was present, and was welcomed by the President. In considering a letter from the Scarborough Association regarding the status of pharmacists connected with the British Red Cross Society, it was mentioned that the Joint Committee of the last-named body and the Voluntary Aid Detachment have cancelled the order changing the uniform of pharmacists. The Treasurer reported good receipts to the General Fund and Benevolent Fund. Both the Treasurer and Mr. Bilson appealed for contributions to the Orphan Fund. The Board of Education has made a grant of 453*l.* 10*s.* to the School of Pharmacy. From the Benevolent Fund 88*l.* was granted to seven applicants. The annual meeting is to be held on May 17 and the Local Associations Conference on May 17 and 18.

THE Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. F. E. Bilson, A. S. Campkin, W. L. Currie, R. L. Gifford, J. P. Gilmour, C. E. Goode, A. Hagon, J. F. Harrington, J. Keall, L. M. Parry, P. F. Rowsell, F. P. Sargeant, T. A. White, and J. R. Young.

MR. GOODE WELCOMED.

The minutes of the previous meeting having been read, the PRESIDENT mentioned that a letter had been received from Mr. F. J. Gibson, stating that he is too unwell to be present.

THE PRESIDENT then welcomed Mr. Goode, who was co-opted to the Council at the last meeting. He said he hoped the new member would "make good" in the position to which he has been appointed.

MR. GOODE regretted that the opportunity of his co-option was due to the resignation of Mr. Rogers. To co-opt a man from the East to fill the place of a man from the West makes the position a difficult one, but he will be satisfied if, after a year of office, he is able to present such a clean sheet as did Mr. Rogers.

ELECTIONS AND RESTORATIONS.

The election then took place of thirty-seven members, and twelve persons were restored to their former position in the Society. Three names were restored to the Register of Chemists and Druggists. The Registrar reported that he had registered thirty-eight apprentices or students.

CORRESPONDENCE.

The Privy Council forwarded the Order in Council approving the resolution of the Pharmaceutical Society varying the description of opium and its preparations and admixtures contained in Part I. of the Poison Schedule.

The Public Pharmacists' and Dispensers' Association forwarded copies of a letter which had been sent to each local Association on the question of registering apothecaries' assistants as chemists and druggists without examination. In regard to this matter, the Liverpool Chemists' Association reported that the subject was discussed at a recent meeting, and it was decided to support the attitude of the Public Pharmacists' and Dispensers' Association.

The Agent-General for Queensland forwarded a final contribution of 127*l.* from the Australasian Pharmaceutical Conference to the Belgian Doctors' and Pharmacists' Relief Fund, making a total contribution from the Conference to the fund of 985*l.*

The Scarborough and West Riding Pharmacists' Association forwarded a resolution expressing disapproval of the recent action of the British Red Cross Society in

reducing the status of pharmacists connected with that body from officers to privates. The Secretary said he had taken up the matter with the Joint Committee of Voluntary Aid Detachment, and had been informed that there was no question of rank involved; it was a matter of uniform. The V.A.D. Committee has since cancelled the change in the uniform for pharmacists.

The Pharmaceutical Society of Australasia forwarded a copy of a communication from Colonel Shepperd, the Deputy-Director-General for Medical Services, in reference to the position of registered pharmacists in the Army Medical Service.

FINANCE COMMITTEE.

The Treasurer then submitted the report of the Finance Committee, of which the following is an abstract:

The receipts of the General Fund during the month were 3,493*l.* 7*s.* 1*d.*, made up as follows: Penalties and costs, 103*l.* 2*s.*; "Journal," 16*l.* 1*s.* 6*d.*; B.P. Codex, 27*l.* 19*s.* 4*d.*; subscriptions, 2,676*l.* 9*s.*; registration-fees, 100*l.* 16*s.*; school-fees, 5*l.* 5*s.*; election of Pharmaceutical Committees, 5*l.* 8*s.* 4*d.*; ground-rent, 20*l.* 12*s.* 6*d.*; dividend, 34*l.* 12*s.* 8*d.*; Board of Education, 453*l.* 10*s.*; restoration-fees, 2*l.* 2*s.*; rent, 47*l.* 8*s.* 9*d.* After deducting the payments ordered at the last Council-meeting, a balance of 1,513*l.* 14*s.* 11*d.* remained. The following amounts were recommended for payment: "Journal" and publications, 194*l.* 10*s.* 10*d.*; stationery and office-expenses, 23*l.* 4*s.*; current expenses, 1,100*l.*; salaries, etc., 858*l.* 6*s.* 8*d.*; School and examinations, 16*l.* 4*s.* 10*d.*; law and professional charges, 12*l.* 10*s.* 6*d.*; house, 49*l.* 17*s.*—a total of 2,254*l.* 13*s.* 10*d.* The balances on the Benevolent Fund were: Current account, 906*l.* 6*s.* 4*d.*; donation account, 257*l.* 5*s.* 11*d.*; Orphan Fund (adverse), 31*l.* 15*s.* 2*d.*

THE TREASURER, in moving the adoption of the report, said that the receipts were good, but he regretted that the Orphan Fund is overdrawn; moreover, there is a payment of 30*l.* awaiting the sanction of the Council. Donations received during the month were Peterborough Pharmacists' Association 2*l.* 6*s.* 8*d.* and social evening of the Warrington Association 2*l.* 11*s.* 9*d.*

MR. ROWSELL was glad to see that in the appeal for subscriptions to the Benevolent Fund provision was made for money to be sent to the Orphan Fund.

MR. GOODE commented on the fact that payments are still being made on account of Pharmaceutical Committee elections, especially as the charges are so moderate.

THE REGISTRAR said the charges will cover the expenses, which are so low because the work was done centrally.

The report was adopted.

BENEVOLENT FUND.

MR. BILSON presented the report of the Benevolent Fund Committee, which recommended seven grants amounting to 88*l.* He made a strong appeal for support for the Orphan Fund, upon which the demand is growing, and added that from eight years' experience of Benevolent Fund Committee work he considered that the work done on behalf of members' orphans is the most satisfactory part.

MR. YOUNG pointed out that the Fund had been somewhat in the background until recently, as there were no demands upon it for some years.

The report was adopted.

LIBRARY COMMITTEE.

THE PRESIDENT presented the report of the Library, Museum, School, and House Committee. It was reported that the School of Pharmacy has been officially scheduled as a technical institution eligible to receive grants for the school-year 1915-16. The amount of the grant had not been announced, but it was understood that it would be on the highest scale. An account for 5*l.* 17*s.* 6*d.* for house repairs was approved. In regard to the lessons in the Russian language the matter has been postponed on account of allegations that the Russia Society has no definite status as a national body.

The report was adopted.

LOCAL ASSOCIATIONS EXECUTIVE COMMITTEE.

The report of the Parliamentary and General Purposes Committee contained the report of the Local Associations Executive Committee. The latter report referred to the "Journal" Committee the suggestion that a card

be issued for exhibition in the pharmacy, urging customers to purchase only British made and owned goods. The Eastbourne Pharmaceutical Committee, which pointed out the difficulties of carrying out both the Shops Act and the National Insurance Act, were informed that there is no incompatibility so far as the Committee can see. A firm of manufacturing chemists in London wrote regarding circular P.S. 20, relating to British-owned goods. Resolutions were also considered from the County of Durham Pharmaceutical Committee and the Monmouth County Association. It was resolved to communicate with the National Health Insurance Commissioners regarding a resolution from the London County Pharmaceutical Association relating to payments from the Drug Fund for 1915. A report by the Vice-President regarding the Conference with the British Medical Association with reference to stock mixtures was approved, and is to be sent to the Commissioners. It was arranged to hold the Local Associations Conference on May 17 and 18, the annual meeting of the Society being on May 17.

The Secretary reported that the checking bureau is now completely organised and engaged in checking prescriptions. The Parliamentary and General Purposes Committee instructed the Secretary to communicate with the areas which have not joined the Society's central checking scheme with a view to ascertaining the reason. It was recommended that Mr. Goode be appointed a member of the Benevolent Fund Committee and the Library Committee, and that Mr. Keall be appointed a member of the Finance Committee. A communication from the Pharmacy Board of Victoria was considered, regarding the registration of Army compounders and apothecaries' assistants, to which the Secretary was instructed to reply. The report was adopted.

THE ANNUAL REPORT.

The drafting of the annual report of the Council was referred to the Library Committee.

EXAMINERS APPOINTED.

Mr. C. T. Allen, Mr. F. E. Fritsch, and Mr. C. H. Hampshire were appointed examiners for the Pereira medal and Council prizes competitions.

This concluded the public business.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, March 5.

Pharmacist Volunteer Training Corps, Millbank Schools, Erasmus Street, Westminster, S.W., at 10 A.M. Parade, followed by hygiene and sanitation examination.

Monday, March 6.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 8 P.M.

Tuesday, March 7.

The Röntgen Society, Institution of Electrical Engineering, Victoria Embankment, London, W.C., at 8.15. Adjourned discussion on "The Injurious Effects Produced by α Rays," and paper by Mr. A. C. Gunstone on "The Use of Inverse Current."

Wednesday, March 8.

Manchester Pharmaceutical Association, Chess Club Room, 65 Market Street, at 3 P.M. Mr. W. Kirkby, M.Sc., Ph.C., on "A Pharmacist in America."

Newcastle-upon-Tyne Pharmacists' Association, Church Institute, Hood Street, Grey Street, at 6.30 P.M. Lantern lecture by Mr. J. Walton Lee on "Colour Photography."

Oldham Pharmaceutical Association, Cafe Monico, Union Street, at 3 P.M.

Southampton Pharmacists' Association, The Bungalow, 157 Above Bar, at 3 P.M. Annual meeting.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 4.30 P.M. Mr. C. R. Darling on "Optical Appliances in Warfare."

Pharmacist Volunteer Training Corps, 17 Bloomsbury Square, London, W.C., at 2 P.M. Lecture on company drill.

Thursday, March 9.

North London Pharmacists' Association, Beale's Restaurant, Holloway Road, London, N., at 7.15. Social Evening. Tickets (3s. 6d. each inclusive), from Mr. Herbert Skinner, Great Northern Central Hospital, Holloway Road, N. The proceeds are to be handed to the Orphan Fund of the Pharmaceutical Society.

Associations' Winter Session

Other meetings are reported under Insurance Dispensing Reports.

Accrington.—The annual meeting of the Accrington Pharmacists' Association was held in the Don Café, Accrington, on February 24, eleven out of sixteen members being present. The President (Mr. J. S. Snell), who was in the chair, gave a survey of the Insurance situation up to date, and also dealt with the work of the Lancashire County Checking Committee, of which he is a member. This Committee was formed for the purpose of checking the pricing as performed by the Insurance Committee, and has revealed the fact that many errors are directly due to the chemists themselves. The President appealed to the members present to assist the pricers and, incidentally, render themselves good service by strictly following out the instructions issued by the County Secretary. The election of officers was then considered, and it was decided to re-elect all the present holders of office. The balance-sheet showed money in hand amounting to 5*l.* 13*s.* 7*d.*

Birmingham.—A whist-drive of the Birmingham Pharmaceutical Association, arranged by the ladies connected with the Association, was held in the Grosvenor Room of the Grand Hotel on Wednesday, February 16. It was a most successful function, the attendance numbering 270. The amount by which the Red Cross Fund and the Y.M.C.A. Huys Fund will benefit was considerable. The M.C. was Mr. Corfield.

Bradford.—The annual meeting of the Bradford Pharmacists' Association was held on February 24 at the Great Northern Victoria Hotel, Mr. R. T. Silson (President) in the chair. Mr. Frank E. Burdett (Hon. Secretary), reported the receipt of a letter from Mr. C. Breece regarding the formation of a Chemists' Union, also letters from the Association of Certificated Dispensers and the Public Pharmacists' and Dispensers' Association, relating to the registration without examination of apothecaries' assistants as chemists and druggists. The President said the examinations for the Apothecaries' Assistant certificate and that of the Pharmaceutical Society bear no comparison. Mr. D. S. Priestley said the examination is clearly not of a sufficiently high standard to admit the holders to the Register of Chemists and Druggists. No action was taken in the matter by the Association. A letter was received from the Pharmaceutical Society urging chemists and druggists to give preference to British and Colonial products as against those of enemy and neutral origin (see *C. & D.*, February 26, p. 57). The Secretary said the matter had been dealt with in a circular to members, which had already produced good results, as dentists are now discontinuing dealing in some of the brands to which attention had been drawn. The Secretary then submitted his annual report, which mentioned that 10*l.* 10*s.* had been handed over to the local Lord Mayor's Relief Fund. The balance-sheet showed the sum of 24*l.* 16*s.* 2*d.* in hand. Both report and balance-sheet were adopted. The election of officers resulted as follows: *President*, Mr. R. T. Silson (re-elected); *Vice-Presidents*, Messrs. C. Robinson and W. Sutcliffe; *Treasurer*, Mr. W. I. Jolly; *Hon. Secretary*, Mr. Frank E. Burdett; *Council*, Messrs. A. Smith, W. Shackleton, and J. W. Thorpe; *Representatives on the Bradford Chamber of Trade*, Messrs. Bainton and Pycroft. The Secretary reported on the work of the Pharmaceutical Committee during 1915. Final settlements of chemists' accounts for 1913 and 1914 had been received, making the payments for those years respectively equal to 87.385 per cent. and 85 per cent. The Secretary said that for various reasons it is advisable that efforts should be made to secure an evening closing order for Bradford pharmacists, one of the reasons being that there is no necessity for chemists to keep their establishments open until 9 or 9.30 at night. In reply to questions the Secretary said that unless prescriptions are marked "Urgent" they would have to wait until the following morning. He believed arrangements could be made with the Panel Committee, and that the doctors would be willing to fall in with the action of the chemists. If an order were obtained it would affect both qualified and unqualified men. It was decided that the hours applied for should be: Mondays, Tuesdays, and Thursdays, 8 P.M.; Fridays, 9 P.M.; and Saturdays, 10 P.M. It was also decided that the Association should become affiliated with the Yorkshire Federation of Pharmaceutical Associations, and that the Secretary and Mr. Priestley should represent the Bradford Association on that body.

Cardiff.—A meeting of the Cardiff Pharmacists' Association was held at the Queen's Hotel on February 24, Mr.

Lea (President) in the chair. After the correspondence had been disposed of, Mr. P. F. Rowsell, J.P., gave an address on *The Proprietary Articles Trade Association*, in which he traced the evolution of the Association in an interesting manner, showing that since its foundation it had been the means of increasing chemists' profits to an enormous amount. Mr. McDonald, of the P.A.T.A., followed up Mr. Rowsell's address with further details of the Association's activities, and afterwards a good discussion took place. Mr. A. Hagon said there is a feeling throughout the country that better prices should be obtained for proprietary articles, and that the P.A.T.A. is not sufficient to attain the objects sought. He referred to the agitation for the formation of a Chemists' Union and Mr. Sargeant's paper before the North London chemists (*C. & D.*, February 19, p. 49), and suggested that the Council of the Proprietary Articles Trade Association should co-opt members to the Council from the retail trade who are members of the Pharmaceutical Society and who live in different parts of the country. The P.A.T.A., he said, must not be afraid to use coercion if necessary. Other speakers were Mr. Evans and Mr. Joseph, after which Mr. Rowsell replied. Resolutions were then passed urging the P.A.T.A. Council to arrange (1) a minimum scale of profits for each class of advertised goods; (2) to exclude from the P.A.T.A. manufacturers who refuse to accept the scale fixed for their class of goods; (3) to prevent the retailing of goods of non-compliant manufacturers by applying rules on similar lines to those now in force for the prevention of price-cutting by retailers.

Derbyshire.—The annual meeting of the Derbyshire Pharmaceutical Association was held on February 23, at the Bell Hotel, Derby, the retiring President (Mr. C. W. Southern) in the chair. The President gave an account of the work done during the past year by the Pharmaceutical Committee. The statistical analysis of prescriptions undertaken by the Committee had been one of considerable magnitude. The prescriptions for the year 1915 are under investigation, but details of these written in the year 1914 having been completed, certain figures of interest were quoted. For example, during 1914 313,252 prescriptions were written by 227 practitioners at a total cost of 10,175*l.* 14*s.* 6*d.*, and an average per prescription of 7.796*d.* The cost of dressings for the year amounted to 575*l.* 3*s.* 7*d.*, with an approximate cost of 10*s.* 10*d.* per 100 panel patients. Proprietaries absorbed 196*l.* 5*s.* 8*d.*, at an average cost of 18.209*d.* each. The amount spent on cod-liver oil, cod-liver oil emulsion, malt and oil, and malt extract totalled 341*l.* 15*s.* 2*d.* The Treasurer (Mr. C. Daykin Turner) presented the balance-sheet, which showed a balance in hand of 4*l.* 6*s.* 8*d.* The following officers were then elected: *President*, Mr. C. H. Twelves; *Vice-Presidents*, Mr. C. W. Southern, Messrs. J. A. Cope, J. Osborne, W. Taylor, and H. G. Toy; *Treasurer*, Mr. C. Daykin Turner; *Hon. Secretary*, Mr. Clement W. Ridyard; *Assistant Secretary*, Mr. F. J. Hitchcock. It was resolved to support the candidature of Messrs. H. Skinner (London) and J. W. Deakin (Northwich) for the forthcoming Council election.

Glasgow.—A meeting of the Glasgow and West of Scotland Chemists' Association was held at Glasgow on February 24, Mr. McMillan in the chair. Three new members were admitted. Mr. J. Howat gave a lecture on the *Wellcome Materia Medica Farm*, illustrated by a fine set of views lent by Burroughs Wellcome & Co. The Chairman, in moving a vote of thanks to Mr. Howat, remarked on the thorough manner in which the firm had carried out this enterprise, and Mr. J. P. Gilmour, in seconding, made allusion to the care with which the harvesting of the various crops had to be carried out and the selection of favourable times and circumstances, drawing a parallel between the modern scientific methods and the ways of the old herbalist-astrologer who did similar things by the phases of the moon or under certain constellations and combinations of these, for similar reasons in all probability, so far as his knowledge went.

Huddersfield.—A special meeting of the Huddersfield Chemists' Association was held on February 23 to consider the report of the delegates who attended the recent meeting in Leeds for the formation of a Federation of all the Yorkshire Associations for mutual protection, insurance and other matters. Mr. V. Shaw presided. A series of resolutions were drafted for submission to the next meeting of the Federation covering a variety of subjects. These contained an expression of dissatisfaction with the so-called commercial Tariff; disapproval of the continuance of such Tariff until the price of drugs became again normal; protest against the Sanatorium Benefit prescriptions being priced under the present Tariff; and considered that the Local Associations Executive should deal with business matters.

London (S.E.).—A meeting of the South-East London Pharmacists' Association was held at Maitland House on February 23, Mr. A. J. Wing (President) in the chair. A letter from Mr. Breese announced that he had abandoned his Chemists' Union scheme. Mr. G. F. Corral addressed the meeting on *Cutting and the War: Chemists' Responsibilities*. He said that "cutting prices is a mean action. If one man starts it, another is sure to follow, and thus the evil spreads." It was also "bad business" selling any line at little or no profit because it locks up capital, and if one article is sold at no profit some other article must be sold at above a legitimate profit to make up for it, which is not fair to the purchaser. Single-shop pharmacists cannot possibly buy on terms sufficiently low to allow them to compete at a profit with large trading firms with multiple shops, but to enable them to do so buying sections should be formed to buy and distribute goods to the members at cost price. He advocated the formation of a Chemists' Union embracing all pharmacists in business. In the discussion which followed, the idea of a Chemists' Union did not receive any support. It was decided, however, that a Trade Secretary be appointed, and Mr. Corral agreed to fill the position. Minimum price-lists were distributed to the members. Members were invited to support the candidature of Messrs. E. White, H. Skinner, and J. W. Deakin at the forthcoming Pharmaceutical Council election.

Peterborough.—The annual dinner of the Peterborough Association of Pharmacists was held at the Angel Hotel on February 24, Mr. A. J. Chater (Assistant-Secretary of the Pharmaceutical Society) being in the chair. Among those present were the Mayor of Peterborough (Mr. G. Nicholls), Sir R. Winfrey, M.P., Captain F. B. Lawson, Lieutenant Taylor, Messrs. Herbert Skinner, W. Johnston, W. Gowen Cross, A. S. Campkin, C. Bayley, and J. W. Bodger. After dinner, Sir R. Winfrey, M.P., replying to the toast of "The Houses of Parliament," said at the present time there is no party warfare, therefore work is accomplished very much quicker than in the old days. All are pulling together in the greatest war the world has ever seen, and he believed they would accomplish the task successfully. (Applause.) The Minister of Munitions has worked in a perfectly wonderful manner in setting up a great Department in a few weeks, and he (Sir Richard) has been told that the machinery is of such a character that there will never be a shortage of munitions, however long the war lasts, and he was afraid they would have to go on adding to it, and they meant to go on adding to it until they had brought the war to a satisfactory termination. (Applause.) Captain F. B. Lawson, the recruiting officer for Peterborough, in reply to the toast of "The Imperial Forces," referred to the part that chemistry is playing in the war; in fact, war, as it is waged in these days, depends so much on science that one is apt to think the leaders of science have been rather overlooked. Mr. A. S. Campkin, who had to leave to catch an early train, made an appeal on behalf of the Benevolent Fund; after which Mr. W. Gowen Cross, replying to the toast of "The Pharmaceutical Society," proposed from the chair, said there is now a closer connection between the Council and the rank-and-file of the Society than there had ever been before. Mr. Herbert Skinner also replied, and alluded to the fact that the real bedrock of pharmacy is science, and he would not like to think chemists are going to subordinate the scientific side of their calling to mere trade. Mr. C. Bayley gave "The City and Trade of Peterborough," and the Mayor of Peterborough, in reply, said that when a certain chemist changed his title to pharmacist, an old lady remarked to him, on seeing the name and not being able to pronounce it, "We've got a man come into our street related to Pharaoh." (Laughter.) Mr. W. Johnston submitted the toast of "The Peterborough Association of Pharmacists," and took the opportunity of referring to the help which the Proprietary Articles Trade Association and the Chemists' Defence Association received from the chemists of Peterborough and the district. In regard to the formation of a Veterinary Section, which Mr. Bayley had referred to, the directors have this matter very much at heart. Attempts have been made on two occasions to form such a section, but sufficient interest was not taken in it to justify the directors in going ahead. In 1914 they had a circular printed, stating that if 200 promises could be obtained a Veterinary Section might be formed. When the war broke out the directors decided to postpone the idea for the present. Mr. J. W. Bodger replied to the toast. Mr. J. G. Sturton proposed "The Visitors," to which Mr. R. True, Mr. W. T. Mellows, and the Chief Constable (Mr. T. Danby) replied. A musical programme was contributed during the evening, and a collection on behalf of the Benevolent Fund realised 2*l.* 6*s.* 8*d.*

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines and appliances.

ENGLAND.

Birkenhead.—At the meeting of the Insurance Committee on February 17, Mr. Power said he had been informed that a certain patient requiring a particular drug from a chemist was informed by the doctor that it could not be ordered because it is too expensive. He wished to know whether it is a fact that a doctor is limited in any individual case in regard to prescription above a certain amount. Dr. J. Ratcliffe-Gaylard said that if the doctor thought it necessary to prescribe this drug for the patient, there is no reason why the patient should not have it.

Birmingham.—At a meeting of the Insurance Committee on February 22, the report of the Medical Benefit Sub-Committee recommending the adoption of the new Drug Tariff was approved. The Chairman (Councillor E. C. R. Marks), referring to the new scheme for the pricing of prescriptions, said the object of the new arrangement is not to get cheaper medicine, but to place the dispensing on a fair footing, both to the chemists and to the insured persons. The chemists are now treated as they should be, and receive a professional fee for prescriptions dispensed, and also a fee for establishment-charges. For the drugs payment is made at cost price.

Bolton.—At the Insurance Committee, on February 24, it was reported that at a meeting of the Joint Committee of Lancashire Prescription Bureau Mr. W. L. Holland (Preston) was appointed Chairman, and Alderman J. T. Cooper (Bolton) Vice-Chairman. It was decided that meetings of the Joint Committee be held alternately at Bolton and Preston, and that a Finance and General Purposes Sub-Committee, consisting of the Chairman and Vice-Chairman, with Messrs. W. A. Platt, H. Watson, and D. Lloyd Price, be appointed to deal with emergency matters, to pass accounts, and formulate a scheme for the payment of expenses of members attending meetings of the Joint Committee and Sub-Committees.

Bournemouth.—At the meeting of the Insurance Committee on February 23, the question of the prescribing of proprietary medicines was raised, and it was decided to write to the Commissioners for a definite answer to the question of whether practitioners are allowed to prescribe proprietaries. It was agreed (a) that payment be made to the chemists on the figures of the pricing bureau, leaving any adjustments of the accounts to be made on subsequent payments; (b) that an advance, at a rate per script approximating to 80 per cent. of the average cost per script for 1915, be made in respect of the January prescriptions.

Cornwall.—At the meeting of the Insurance Committee on February 24, the Clerk submitted the following particulars relative to chemists' accounts for 1915: Drug Fund: Scripts dispensed, 107,736, against 119,266 in 1914; total cost, 3,511l. 2s. 2d. (4,941l. 11s. 5d.); average cost, 7.75d. (9.03d.); paid on account, 2,466l. 19s. 11d. Sanatorium Fund: Scripts dispensed, 5,311 (2,471); total cost, 466l. 12s. 4d.; average cost, 1s. 9d. (2s. 1d.).

Huddersfield.—At the meeting of the Insurance Committee Mr. V. Shaw, President of the Huddersfield Chemists' Association, was elected a member in place of Mr. R. C. Walshaw, who has resigned. The Committee voted the payment from the Drug Fund of 740l. 10s. 9d. on accounts due to chemists for the quarter ended December 31 last. A sum of 31l. was ordered to be paid to the Pricing Bureau as an advance in respect of the amount payable by the Committee, this being a call of 5s. per thousand upon 124,000 prescriptions estimated to be sent for pricing by the Committee during 1916. The number of prescriptions for the quarter ended December last was 24,513; number of insured persons at beginning of quarter, 46,776; total cost of drugs, including capital fee, 740l. 11s. 4d.; average cost of drugs per head, 3.80d.; average cost per prescription, excluding capital fee, 7.19d.

Lancashire.—The pricing of the January scripts for the county of Lancashire Insurance Committee's area, which is independent of any bureau, has been completed.

Leicestershire.—At a meeting of the Insurance Committee on March 1, a report was made as to the negotiations

that had taken place with the six dissenting Committees and the Insurance Commissioners with a view to the principle of joint control being adopted in the scheme of pricing under the group system. The Commissioners have now arranged that the six Committees shall be transferred to the West Midlands group, and at a meeting of the group held at Birmingham the principle of joint control was established, and the six Committees are each allotted a representative on the General Committee, also two representatives to serve upon the Executive Committee of the Joint Committee. Alderman W. Hirst was subsequently elected to represent the Leicestershire Committee on the Executive. It was agreed that the list of The British Drug Houses, Ltd., be adopted for drugs not specified in the Tariff. The Medical Benefit Sub-Committee reported that arrangements have been made with the West Midlands Pricing Establishment for the prescriptions in respect of the Leicestershire area to be priced in duplicate, and that the duplicates will be forwarded to the offices of the Committee for examination on behalf of the County Pharmaceutical Committee by the Pharmaceutical Society.

Plymouth.—The Pharmaceutical Service Sub-Committee has been considering a complaint that certain pharmacists were unable to supply an insured person with forty-eight 20-gr. guaiacol-carbonate powders which had been transferred from the prescription of a specialist to a panel form. Seven pharmacists in all were cited, but the charge against some of them was not considered serious as they were out of stock. It was recommended, however, that a caution should be sent to three pharmacists who do not seem to appreciate their responsibility under their agreements. At the meeting of the Insurance Committee this course was confirmed. The pharmaceutical representatives strongly objected to the names of the pharmacists being made public, and it was decided that in future all cases should be mentioned by number only.—Payment amounting to 6½d. per script for the month of January was made on February 15, and the various pharmacists calculate that unless a further substantial payment take place in March on the January account the difference in payment between the old and new Tariff will be from 20 per cent. to 25 per cent. The question of joining the Cheeking Bureau is to be considered at the next meeting of the Pharmaceutical Committee, but reluctance is felt to incur further expenditure upon a cost-price Tariff.

Portsmouth.—At a meeting of the Insurance Committee on February 24, the Clerk presented his annual report, which stated that the number of chemists on the panel is forty-two, not including one person who has contracted to supply appliances only. There are sixty-one shops, including one at Cosham and two at Gosport. The Drug Fund in 1913 amounted to 5,107l. 1s. 11d., and 163,843 prescriptions were dispensed. In 1914 the number of prescriptions was 163,360, and the cost 5,853l. In the three quarters of 1915 under revision the respective cost of the drugs was 1,715l., 1,080l., and 800l., and the number of prescriptions made up during those three quarters was 111,801. The Drug Fund for 1915 was sufficient to pay the chemists in full, and 260l. 14s. 3d. was transferred to the Panel Fund. During 1914 the Fund with the amount of grant from the Emergency Fund represented a discount of chemists' accounts of 11 per cent. To obviate a continuance of this undesirable state of affairs a system of scrutinising prescriptions was inaugurated which has given every satisfaction. In spite of the progressive increase in prices in certain much-used medicines owing to the war, the cost per prescription has declined and is now stationary.

Sheffield.—A meeting of the Insurance Committee was held on March 1, when Councillor A. Neal was appointed Chairman, in place of Sir Wm. Clegg, resigned. It was decided that chemists should not be allowed at present to alter their hours from those set forth in the printed list. It was agreed to support the request of the Pharmaceutical Committee that practitioners should be required to sign prescriptions personally, and not by means of a rubber stamp. The question of administrative expenses for the Pharmaceutical Committee was again before the Committee, and it was decided that a payment on account of 120l. as requested for the year 1916 be made, subject to the approval of the Insurance Commissioners. A request from the Pharmaceutical Committee for a payment on account of 15 per cent. of the 25 per cent. withheld from the 1915 accounts was considered, and it was decided to make a payment of 5 per cent., subject to the approval of the Commissioners. The first payment for 1916 at the rate of 4d. per script was ordered to be made, amounting to 636l. 3s.—A meeting of the Pharmaceutical Committee was held on February 29. Mr. H. G. Williams presided. A communication was read from the Insurance Committee, in answer to a request that Mr. Appleton should be placed upon their Finance

Committee, in which it was pointed out that, as chemists are to be paid in full, there is no necessity for a seat for a chemist on the Committee. The action of the Secretary was approved in again drawing the Committee's attention to the many financial interests chemists have in the work of the Committee, and asking for further consideration of the claim. It was decided to recommend that a small balance in the hands of the Insurance Committee be paid as an *ex gratia* payment to a chemist who omitted to get his accounts in within the prescribed time. The question of the checking of prescriptions by the Central Checking Bureau was again brought forward. The refusal to guarantee a complete check from month to month for the whole year was received, as it was held out that such a check is unnecessary, and it would be unfair to other Committees to give such a promise to Sheffield alone. It was decided to confirm the appointment of the Society as checkers for twelve months. A vote of sympathy was passed with the family of the late Mr. Newsholme.

West Riding.—At a meeting of the Insurance Committee on February 24, the Medical Benefit Sub-Committee reported that they had interviewed a panel chemist in regard to his having altered certain prescriptions and thereby increased their monetary value. The Sub-Committee recommended that the chemist be severely reprimanded, and payment made only on the value of the original prescriptions. Mr. J. Gillies said he did not think the chemist had any intention of defrauding the Committee. The prescription given by the doctor was for certain tablets, and, having none in stock, the chemist supplied the drug in powder form, which is more expensive. The chemist has expressed his regret, and promised that it should not occur again. The Insurance Committee decided to censure the chemist.

SCOTLAND.

Ayrshire.—A largely attended meeting of Ayrshire panel chemists was held in Ayr on February 23, to hear Mr. A. B. Gilmour, Superintendent of the Central Checking Bureau, explain the working of that institution. Mr. G. Shiach Kitchin accompanied Mr. Gilmour, and also gave a short address. Mr. W. Beveridge occupied the chair. Mr. Gilmour's address proved very interesting, and during the course of the lecture and the subsequent questions many points were elucidated that had previously been in doubt. The meeting indicated its satisfaction with the Bureau, and Mr. Gilmour was complimented on the manner in which he is discharging his difficult duties.

Glasgow.—A joint meeting of representatives of the Insurance Committee, the Panel Committee, and the Pharmaceutical Committee was held on February 22, when it was agreed that the "disallowed" forms for 1915 should be passed without objection down to the end of June, with the exceptions of "B" forms and unofficial forms. The arrangement thus come to means simply a continuance to the date named of the rule previously in operation in the area, it being recognised that it would be unfair to return prescriptions to be rectified now after so long an interval. The Bureau is expected to be up to date shortly with the Glasgow check, and when this is so a more satisfactory method of payment is contemplated by the Pharmaceutical Committee and the Insurance Committee. There was a surplus in the Drug Fund at the end of September 1915 of about 3,000*l.*

WALES.

Radnorshire.—At a meeting of the Insurance Committee held at Llandrindod Wells, the Medical Benefit Sub-Committee recommended that Mr. Ernest J. George, Walsall, be appointed to do the entire work in connection with the pricing of prescriptions, in accordance with the procedure laid down for 1915, his remuneration to be at the rate of 1*l.* per 1,000 prescriptions. This matter came up at later meetings of the Committee, and having regard to communications received from the Welsh Commissioners, suggesting that the Insurance Committee should enter into an agreement with the Cardiff Insurance Committee to do this work, the matter was further considered, and the Clerk instructed to inform the Commissioners that if they did not consider it advisable to confirm the arrangements made with Mr. George, the Committee appeared to have no power but to adopt the suggestion made by the Commissioners. The Commissioners replied that they found themselves unable, owing to the difficulties referred to in their circular letters, to approve of the Committee's proposal for the appointment of Mr. George. In these circumstances the Committee recommended that the agreement proposed by the Insurance Commissioners with Cardiff be executed. This course was agreed to.

Notes.

HEALTH INSURANCE FUNDS.—The National Health Insurance accounts, which have just been issued, show that the General Medical Benefit Fund for England was as follows: Income from January 15, 1913, to January 14, 1914: From Approved Societies, 2,384,825*l.*; from deposit contributors, 57,251*l.*; from Navy and Army Insurance Fund, 95*l.*; from Exchequer (1) ordinary grant, 728,729*l.*; (2) special grant, 1,300,226*l.*; the total income being thus 4,471,123*l.* The payments were as follows: To Insurance Committees for year 1913 in respect of Medical Benefit, 4,384,149*l.*; to Central Medical Fund in respect of travellers, 91*l.*; balance, 86,887*l.* The General Sanatorium Benefit Fund for England for the period July 15, 1912, to January 12, 1914, was as follows: Income: From Approved Societies, 744,930*l.*; from deposit contributors, 20,212*l.*; from Exchequer, 272,729*l.*; the total income thus being 1,037,871*l.* The payments were: To Insurance Committees in respect of Sanatorium Benefit, 1,012,600*l.*; central funds (travellers), 13*l.*; leaving a balance of 25,257*l.* The total balances of all the funds amounted to 13,009,329*l.*, against which the Commissioners have investments with the National Debt Commissioners of 12,432,200*l.* Cash at the Bank of England, 200,872*l.*, and sundry other amounts cover the balances.

We are indebted to the Insurance Commissioners for notes on three appeals heard by them in respect to cases of alleged excessive prescribing, the principal facts of which are embodied in the following paragraphs:

Case A. Dr. X. prescribed phylacogen, glycer, thymol. co., and bandages. Investigation was taken under Article 40, and a Sub-Committee of the Panel Committee inquired and reported to the Panel Committee, which resolved to surcharge Dr. X. full cost for the phylacogen and 50 per cent. in respect to the glycer, thymol. co. The Insurance Committee was duly informed, and decided to deduct 12*l.* 11*s.* 9*d.* from Dr. X., who appealed. Appeal heard on December 10, 1914, and Dr. X.'s solicitor's statement to the Commissioners was such that they allowed the appeal and instructed the Insurance Committee to refer the case back to the Panel Committee for a fresh report. The Commissioners pointed out the directions in which the first inquiry and report did not accord with Article 40.

Case B. An Insurance Committee surcharged Dr. X. 77*l.* 6*s.* 10*d.* in respect to the half-year which ended in January 1914, owing to extravagant orders for drugs. Appeal heard by Commissioners on January 30, 1915. It appeared that the Insurance, Panel, and Pharmaceutical Committees had had all panel doctors' prescriptions analysed and the results tabulated. It was found that Dr. X.'s prescriptions exceeded the average of all the doctors by 174*l.* 2*s.* 10*d.*, or 22,024*d.* per prescription. The Panel Committee considered the matter and found that extravagance existed in Dr. X.'s prescriptions. The Medical Benefit Sub-Committee of the Insurance Committee advised that 77*l.* 6*s.* 10*d.* should be deducted from Dr. X. The Commissioners, on all the evidence, held that the Insurance Committee were justified, but the Commissioners, on careful consideration of the circumstances and regulation, concluded that a deduction of 25*l.* from Dr. X.'s account would suffice.

Case C. An Insurance Committee resolved on June 9, 1915, that sixteen panel doctors should be surcharged 633*l.* 19*s.* 10*d.* in respect to prescribing in 1913, when the deficiency in the Drug Fund was believed by the Insurance Committee to be due to excessive or extravagant prescribing on the part of the sixteen doctors. All but two of the doctors (on military service) appealed, and the Commissioners heard the appeal on September 1, 1915. It appeared that the Pharmaceutical Committee called the attention of the Insurance Committee to the matter in 1913, and the Local Medical Committee was informed then, but took no action up to April 1914. On July 10, 1914, the Panel, Pharmaceutical, and Insurance Committees agreed to instruct Mr. X., Ph.C., to analyse the doctors' prescriptions, which he did, and submitted two reports, the first of which contained the figures upon which the Insurance Committee acted on June 9, 1915. The second report dealt with individual prescriptions of the sixteen doctors, but was not considered by all the parties before the Insurance Committee's decision was come to. There had been prior consideration of the matter and an appeal by nine of the doctors to the Commissioners, who instructed the Insurance Committee on February 17, 1915, as to certain irregularities. (Each of the sixteen doctors got a copy of the Commissioners' letter.) The Insurance Committee duly considered and acted upon this instruction before deciding in June 1915, and a very large part of the report sent to us by the Commissioners deals with the steps taken, especially by the Panel Committee before that date. The Commissioners note that the Panel Committee persistently declined to carry out certain investigations without which the truth on the material questions at issue could not in many cases be properly ascertained. Moreover, the abdication of their proper functions by the Panel Committee resulted in grave injustice to fellow practitioners. The Commissioners say so in their report of February 12, 1916, which excludes thirteen of the sixteen surcharges and sustains three, amounting to 389*l.*, to the extent of 65*l.*—viz., (a) 50*l.* where the Insurance Committee's surcharge was 317*l.* 14*s.* 3*d.*; (b) 10*l.* in place of 54*l.* 18*s.* 9*d.*; and (f) 5*l.* in place of 16*l.* 1*s.* 9*d.*

FOR THE LONG NIGHTS a most entertaining and readable book is Wootton's "Chronicles of Pharmacy." The two volumes, published at a guinea, are sent post free by the C. & D. for 7*s.* 6*d.*

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

EYESIGHT AND COMMISSIONS.

Mr. Duncan Millar asked the Under-Secretary for War what is the present standard of vision required in the case of applicants for commissions in the Army and the Reserve, and whether applicants who are below the standard required for active service are being accepted for home service.—Mr. Tennant, in reply, stated that the vision of applicants for commissions in the Army must not be below 6/24 without glasses, and after correction with glasses it must be normal in the better eye and 6/12 in the other. For candidates for the Special Reserve of Officers the standard required is as just stated, except that vision without glasses in each eye must not be below 6/36. There is no special standard required for active service as distinct from home service.

GINGER-WINE.

Mr. J. Cathcart Wason, M.P., on February 29, asked the Chancellor of the Exchequer if he can give an approximate estimate of the quantity of sugar used in the manufacture of beer, and also in the manufacture of ginger-ale, ginger-wine, and lemonade; and will take into consideration the fact that the price of sugar prevented much jam being made last year, and curtail as much as possible the use of sugar in drink that cannot be regarded as a necessity.

Mr. Lloyd George (replying for the Prime Minister) said the quantity of sugar, including its equivalent of syrups, glucose, and saccharin, used in brewing in the year ended December 31 last was 132,192 tons. There is no information available as to the quantity of sugar used in the manufacture of ginger-ale, ginger-wine, and lemonade. The suggestion of his hon. friend had been noted.

MORPHINE AND IMPORTED OPIUM.

On March 1, in the House of Commons, Mr. Samuel Samuel, M.P., asked the Foreign Secretary if the War Trade Department consulted interested consumers who manufacture morphine from imported opium whether the re-export should be allowed; if the War Trade Department withheld permits in order to accumulate stocks of unsold opium in this country with a view to the manufacturers buying it at their own prices later on; and whether he has considered if such action will prevent the further import of opium into this country and divert the trade to other countries after the war.

Mr. Samuel Samuel also asked the Foreign Secretary if he will state the reason that permits are being withheld for the re-export of Persian opium to the United States, Japan and other neutral countries; is he aware that the stocks in London are already 1,000 cases, and that there are further supplies of about 500 cases coming forward; and is it the intention of the Government to injure the trade of this country permanently by compelling merchants to sell direct to consuming countries without passing through the United Kingdom.

Mr. Bridgeman, replying to both questions, said that opium is of special importance for the treatment of the wounded, and in view of the great demand for this drug, and of the special conditions affecting the usual sources of supply at the present time, it is not considered that the present and prospective stocks are in excess of what may reasonably be regarded as necessary for the requirements of the country. There is no foundation for the suggestion that there has been any restriction of exports in the interests of the manufacturers of morphine, nor is it considered that the policy of the War Trade Department in safeguarding home supplies will have the effect indicated in the first part of the questions.

Mr. Samuel: Does H.M. Government think that such action will prevent supplies coming into this country?

Mr. Bridgeman: I must have notice of that.

GLYCERIN AND SOAP.

Mr. Patrick Meehan asked the Financial Secretary to the War Office on March 1 if all the glycerin produced by Irish soap-manufacturers has been commandeered by the Government at the price of 59/ 10s. per ton; if the War Office are paying American soapmakers 250/ per ton for glycerin, and, if not, what price is being paid to the American makers; if he is aware that the percentage of glycerin in the fats used in making soap is 10 per cent., and that the American manufacturer, owing to the price paid to him for his glycerin, can afford to pay 20/ per ton more for his fats than the Irish manufacturer and make his soap as cheaply; and if he is aware that the stopping of the importation of American soap during the war, owing to the increase in the production of British-made soap, would

place at the disposal of the War Office an increased supply of cheap glycerin.

The Minister of Munitions, who replied, said the answer to the first part of the question is in the affirmative. As regards the second part, no glycerin is being bought from America by the Ministry of Munitions. As regards the third part, the answer is in the affirmative. As regards the rest of the question, he is not aware of the price being paid by American manufacturers of soap for their fats, nor what it costs them to make soap. All possible steps are being taken to increase the supply of cheap glycerin for war purposes.

Mr. Patrick Meehan also asked the President of the Board of Trade if he is aware that Irish and English toilet-soap makers are handicapped in competition with American rivals as, owing to the impossibility of procuring brass, nickel-plated, and tin tubes and boxes, they cannot present their goods as attractively as heretofore and the public purchase the attractive American article; if he is aware that many of the American manufacturers put the addresses of their London agents on their boxes, and the public cannot tell whether they are Irish or English-made; and whether, in view of the importance of restricting the purchase and consumption of imported articles, especially where, owing to the exigencies of the war, these articles have a competitive advantage over the home-manufactured ones, he will take practical remedial action.

Mr. Runciman replied that he can add nothing to the reply on the same question which he gave on February 24.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From the "Trade-marks Journal," February 9, 1916.)
Cross and star device with letter "L" ("L" and cross-device disclaimed); for chemicals (2). By Lysol, Ltd., 9 and 10 St. Mary-at-Hill, E.C. 366,020.

"VINCO"; for medicinal tablets (3). By Eleanor Carse, 3 Mowbray Terrace, Sunderland. 369,731.

"WINTIES"; for medicinal chemicals (3) and for food-substances (42). By Warrick Bros., Ltd., 6 Nile Street, City Road, N. 370,743/4.

"SOLIMENT"; for liniment (3). By C. A. C. Nicoresti, Ashmoor, Hermon Hill, Snaresbrook, N.E. 370,845.

"TALORA"; for pharmaceutical preparations (3). By E. G. Trevelthick, 1 Church Street, Kidderminster. 370,949.

"THERMOPINE"; for medicinal chemicals (3). By Arthur H. Cox & Co., Ltd., Brighton. 371,132.

Device including bee, word "KEROTYPE," etc. ("Kerotype" disclaimed); for photographic paper (39). By A. Matheson, 29 Devonshire Chambers, Bishopsgate, E.C. 370,435.

"GOLDONA" and "PEACH-BLOSSOM"; for goods (42). By F. D. Mordle, 24 Compton Road, Sherwood. 370,284/111.

"FLIRTATION"; for all goods (42). By Williams's, Ltd., Waterworks Street, Bootle. 371,006.

"ORANALE"; for mineral and aerated waters (44). By Stevenson & Howell, Ltd., 95A Southwark Street, S.E. 370,917. (Associated.)

Design with word "MISONO" and Japanese characters; for perfumery, etc. (48). By Sakae Ito, 6-9 Shiba Park, Tokio, Japan. 367,917.

"CARADIUM"; for toilet-preparations (48). By Helen Cavendish, 120 New Bond Street, W. 370,424.

"LULLABY SOAP" and floral design; for soap (48). By Blondeau et Cie., Ltd., 37 Upper Thames Street, E.C. 370,451. (Associated.)

Device of letters "P. L."; for perfumery, etc. (48). By Price's Patent Candle Co., Ltd., Battersea, S.W. 370,647.

"CLERADIUM"; for depilatories, etc. (48). By Heppell & Co., 164 Piccadilly, W. 370,833.

(From the "Trade-marks Journal," February 16, 1916.)
"SISCOPAL"; for chemicals (1). By Sissons Bros. & Co., Ltd., Sculcoates, Hull. 371,002. (Associated.)

"LICITAS"; for vermin destroyers (2). By the "Sanitas" Co., Ltd., Limehouse, London, E. 370,973.

"BÉNÉDICTINE"; for goods (3). By Société Anonyme de la Distillerie de la Liqueur Bénédicte de L'Abbaye de Fécamp, 110 Rue Théogène Boufart, Fécamp, France. 361,394. (Associated.)

"NUOL"; for medicinal and curative preparations (3). By Standard Oil Co., Constable Hook, Bayonne, Hudson County, N.J. 368,084.

"TO-THIT"; for a preparation for the teeth (3). By A. Wilson, 53 Bothwell Street, Glasgow. 370,008.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

12 Cannon Street, E.C., March 2, 6.30 p.m.

A FAIR amount of business is reported in the chemical and drug markets, with few important movements in values. Norwegian cod-liver oil continues to advance owing to the poor catch, but the livers are exceptionally fine and the yield of oil excellent. Borax and boric acid are dearer owing to increased freights, etc. Bichromates are also dearer. Acetanilide and formaldehyde have both improved on a better demand. Potash and soda bromide, chloral hydrate, and the salicylates are the turn weaker. Quinine and opium quiet. Owing to the high freights produce like nutmegs, gingers, pimento, tapioca, etc., are rising markets. The principal changes are as under:

Higher	Firmer	Easier	Lower
Acetic acid	Acetanilide	Chloral	Ammonia
Bichromates	Antimony	hydrate	sulphate
Borax	(Ch. cr.)	Hexamine	Euonymus-
Boric acid	Cassia lignea	Linseed oil	bark
Caraway-seed	Cloves	Potash	Guarana
Cinchona	Cocaine	bromide	(N.Y.)
(Amst.auction)	Coconut oil	Soda bromide	Ipecacuanha
Cod-liver oil	Penugreek-		Cartagena
(Norw.)	seed		(N.Y.)
Cumina-seed	Formaldehyde		Turpentine
Linseed	Palm oil		
Pot. prussiate	Tamarinds		
(red)	Wax, Veget.		
Shellac	(Japan)		

The Drug Auctions will be held next week, Thursday, March 9.

Cablegram.

NEW YORK, March 1.—Business in drugs is fair. Opium is firm at \$11.50 per lb. for druggists' by single cases. Peppermint oil in tins is steady at \$1.95. Guarana is lower at \$1 per lb. Digitalis-leaves have been advanced to 85c., and Cartagena ipecacuanha is lower at \$3 per lb. Taraxacum is dearer at 28c., and euonymus-bark is lower at 29c. per lb.

ACETANILIDE is dearer, parcels having changed hands at from 7s. 6d. to 8s., the latter being the price at the close. America has sent inquiries to this market.

ACETIC ACID.—The price of glacial in carboys has been raised to 200s. per ewt. ex wharf; sales have been made at various prices up to 195s.; 80-per-cent. commercial is 150s.

ACETYSALICYLIC ACID.—Sales of English make have been made at 47s. 6d., which is current value.

ACONITE.—Japanese from spot stock is offered at 50s. per ewt.

ALUM has very few sellers, with a limited quantity offering by dealers at 14s. to 15s. for crystals and 16s. for powdered.

AMMONIA SULPHATE is 5s. to 10s. lower at 16l. to 16l. 5s. per ton net naked at works London for 25-per-cent. ammonia for prompt delivery; Hull prompt is 5s. lower at 16l. 15s.; Liverpool is 5s. to 7s. 6d. cheaper at 16l. 17s. 6d. to 17l.; and Leith is 5s. lower at 17l. per ton, less 3½ per cent. in bags f.o.b.

ANISE OIL (STAR).—"Red Ship" brand remains at 3s. 4d. on the spot, and 3s. 2½d. c.i.f.

ANISED is dearer, the price of good Spanish being now 50s. per ewt. Russian is offered at 42s. per cwt.

ANTIMONY.—Chinese crude is dearer at 114l. per ton on spot.

ARSENIC.—Best Cornish powdered is still being quoted at 30s. per cwt., but for actual spot parcels rather more is asked.

BALSAMS.—Pern is unchanged and quiet at 20s. to 21s. net. Copaiba is comparatively scarce at 2s. 11d. (paid) on spot and 2s. 6d. for Para. Tolu is 1s. 7d. for good hard bright. Canada is 4s. 3d. net for genuine.

BELLADONNA-ROOT has been sold at 480s. per cwt. for 0.5-per-cent.

BERGAMOT OIL.—A Sicilian advice, dated February 19, reports slightly more business, which had the immediate effect of advancing prices, and buyers have readily ceded to sellers' demands. In London agents quote from 12s. to 12s. 6d. per lb. c.i.f. for immediate shipment.

BICHROMATES.—Potash is dearer at 2s. 6d. per lb., and soda at 1s. 6d.

BORAX.—Refined has been advanced by 3s. per cwt. to 28s. and powdered to 29s.

BORIC ACID is 5s. per cwt. dearer at 48s. for crystals and 50s. for powder. The increased prices are due to higher freights on raw materials, etc.

BROMIDES show a rather weaker tendency, and in view of the slack demand dealers are inclined to cut prices and invite bids. Potassium is quoted at from 23s. 6d. to 24s. 6d., sodium 17s. 6d. to 18s., and ammonium (which is not plentiful) 23s. 6d. to 24s.

CAMPHOR, JAPANESE.—Refined is quiet, 2½-lb. slabs offering at 1s. 8½d., and for April-May shipment 1s. 7d. c.i.f. has been paid.

CANARY-SEED is in fair demand at steady prices, ordinary being quoted 79s. and good 83s. per quarter.

CARAWAY-SEED is dearer at 61s. to 63s. per cwt. for fair to good Dutch on the spot.

CASCARA SAGRADA.—New bark is selling at 55s., and for good thin 1913 60s. is wanted.

CASSIA OIL.—Spot sales of 80 to 85 per cent. have been made at 4s. 3d.; to arrive 3s. 10d. c.i.f. is quoted.

CHLORAL HYDRATE is slightly easier, crystals or cake in bond offering at 10s. 6d. per lb. net.

CINCHONA.—The result of the tender held at Amsterdam on February 24 shows that the equivalent of 54,220 kilos. quinine sulphate were bought by the makers, the preliminary unit being 12.55 cents per half kilo. The average unit in January was 9.56c., against 6.20c. Of the pharmaceutical bark offered, the quinine content was 3,123 kilos., of which the equivalent of 148 kilos. sold, the prices paid for bark being from 30½c. to 71c.

CITRATE OF LIME.—A Palermo report, dated February 11, states that the whole production and stock of the last campaign (about 7,800 tons) was all sold and delivered before December last. More than 9,000 tons ought to be produced this year, if the export of fruit continues as slack as it is now. The lemon crop is an average one, and the citric production can be increased or reduced, depending principally upon the lemon export during the year. The Camera Agrumaria has maintained the price of 220 Italian lire per 100 kilos., basis 64-per-cent. citric, payable, however, in gold, which means about 25 per cent. advance in price. The present price is equal to 26l. 5s. per pipe of 305 kilos., f.o.b., basis 64-per-cent. citric, on the usual analysts' London test. The cost of production of concentrated lemon-juice being much higher, and the Camera making no difference in price, nobody cares to manufacture this article, and the industry is declining.

CITRIC ACID is rather firmer again at from 3s. 2d. to 3s. 2½d. per lb.

CLOVES are dearer, with spot sales of fair Zanzibar at from 7½d. to 7¾d.; to arrive January-February and February-April shipment has been sold at 6¾d. to 6¼¾d. c.i.f. d.w.; also March-May and April-June delivery at 7¼d. to 7¾d.

COCAINE is firm and scarce at 22s. per oz. less 5 per cent. for hydrochloride; business has been done at 21s. 6d.

COD-LIVER OIL.—Quotations from Norway are again on a higher plane, but buyers for the most part prefer to look on, especially as the fishing prospects (although impeded by stormy weather) are good. The range of values for finest Lofoten 1916 oil for March shipment early in the week was from 395s. to 480s. per barrel c.i.f. London, war insurance extra, and subject to confirmation, but at the close 500s. was asked in several quarters. Sales have been made at 430s. c.i.f. On the spot holders of finest Norwegian 1915 oil ask about 390s. to 395s. per barrel, and for shipment of 1915 oil from Norway we hear of a quotation of 400s. f.o.b., equal under present conditions of war risks, freights, etc., to about 408s. 6d. landed terms.

Our Bergen correspondent writes on February 21 that the results of the new cod-fishing are so far insignificant and far below those of previous years. The official figures are as follows:

	1913	1914	1915	1916
<i>Lofoten.</i>				
Catch of cod (millions) ...	0,700	1,200	1,400	0,310
Yield of c.l.o. (hect.) ...	395	1,137	1,570	448
<i>Whole of Norway.</i>				
Catch of cod (millions) ...	8.4	7,100	7,900	2,600
Yield of c.l.o. (hect.) ...	6,800	6,900	8,950	3,825

A private advice from Bergen, dated February 22, reports that as the result of the stormy weather during the month the fishing fleet has been able to put to sea for a few days only, and the results are much below the average. Last year's oil is available in small quantities only, and as there is a good demand the market is very firm, 1915 oil offering, without engagement for March shipment at 395s., and 1916 oil at 405s. per barrel c.i.f. London, war insurance extra. These latter prices are now out of date.

Freudentheil & Co. have received the following advice from their principals, Brodr. Aarsæther, of Aalesund, dated February 21: "Last year the export was very lively, and therefore only an insignificant quantity is carried over into the new season. The new fishing has now commenced, but operations have been greatly impeded by stormy weather. Livers are, however, in fine condition, so that a large quantity of oil will be made if the catch becomes fair. . . . Owing to a lively demand from most countries the price has advanced, and we quote at present 420s. per barrel, c.i.f. Hull, for finest 1916 non-freezing Lofoten oil."

[A cable received on February 29 instructs the firm to quote 480s.—Ed.]

CORJANDER-SEED is steady at 17s. 6d. to 19s. per cwt. for common-to-good Morocco.

CUMIN-SEED is dearer, the small stock of good-quality Morocco being held for 92s. 6d. per cwt.

DIGITALIS-LEAVES are quoted at 140s. per cwt. to come forward.

EUCALYPTUS OIL remains firm at from 2s. 4½d. to 2s. 6d. per lb. on the spot.

FENNEL-SEED has been sold at 32s. 6d. per cwt. on the spot.

FENUGREEK-SEED is dearer at 12s. 6d. per cwt. for fair Morocco on the spot.

FORMALDEHYDE.—Rather more demand has been shown for spot parcels and prices have hardened in consequence; from 60s. to 62s. 6d. per cwt. is quoted for 40-per-cent. volume. The keen competition which recently existed in the article has resulted in several importers ceasing to deal in it.

GENTIAN is scarce at from 62s. 6d. to 65s. per cwt., and cut is 95s.

GLUCOSE.—The prices quoted in the daily Press are quite nominal owing to temporary scarcity.

HEXAMINE continues weak at the wide range of from 3s. 6d. to 4s. 3d. per lb. as to holder.

HYDROQUINONE.—Current values are from 35s. to 37s. 6d. per lb.

INSECT-POWDER is in fair inquiry, the value of foreign ground being about 2s. per lb.

LAVENDER OIL is in good inquiry, and for good to fine French from 13s. 6d. to 14s. per lb. is asked.

LEMON OIL remains very flat at 3s. 6d. on the spot and at 3s. 4d. c.i.f. A Sicilian correspondent writes on February 19 that the position of the local market remains as described in our last report, and consequently changes in prices occur as soon as there is a slight revival in the demand from abroad or locally. In fact, during the last fortnight there was a slight upward movement, but it now seems to have subsided. The local level of prices ruling this season, which barely cover the cost of production, coupled with a generally insignificant need of money, has created amongst sellers and producers a reserved tone, and consequently the market is sensitive to the slightest increase of demand. The rate of exchange has also been declining during the last few days.

LINSEED.—Fine quality is scarce and dearer, 94s. per quarter being the quotation for fair Morocco on the spot.

MENTHOL remains firm, the sales including Kobayashi-Suzuki near at hand at 13s. 4½d. landed terms; spot price is 13s. 6d.; for February-March shipment Kobayashi is quoted 12s. 4½d. c.i.f. and oil 4s. 1½d. c.i.f.; spot price of oil is 4s. 4½d. to 4s. 6d.

METHYL SALICYLATE is being offered much more freely from Holland in competition with the United States, which has had the tendency to lower makers' prices.

MILK-SUGAR has shown rather more demand, but it is still possible to buy at from 76s. to 77s. per cwt. on the spot.

NUX VOMICA.—Quiet, with Madras offering at about 22s. 6d., Calcutta 21s. on the spot; Cochin 23s. c.i.f.

OILS (FIXED).—*Linseed* is 6d. cheaper at 44s. in pipes and 45s. in barrels on the spot. *Cottonseed* is unchanged at 42s. 6d. for crude in pipes on spot, 47s. 6d. for refined in pipes, and at from 51s. to 52s. for sweet refined in barrels. Ceylon *Coconut* is 1s. 6d. higher at 59s. for pipes and 60s. in hogsheads, both on spot; Cochin is 60s. to 61s. on spot, and London pressed is 50s. Ordinary brown crude *Rape* is scarce and nominal at 52s.; British refined in barrels is 55s. to 56s.; Japan in cases is 47s. 3d. c.i.f. afloat. *Soya* oil is steady at 37s. for Manchurian in cases on passage, and January-February 37s. Hull (spot) extracted is firm at 41s., and crushed 41s. 6d.; Lagos *Palm* is 1s. firmer at 47s. spot, and in Liverpool 42s. 6d. for February-March.

OLIVE OIL.—A Palermo advice, dated February 11, reports that the last crop in Italy and Sicily turned out still shorter than anticipated, and prices are ruling very high. The export is of no account, and the production is barely sufficient for home consumption. The yellow lampant oils are quoted at 64l. per ton, casks included, while the fine eatable oils command from 75l. to 85l. according to quality.

ORITUM.—The position remains steady but quiet, with no pressure to sell. The nominal figure for Persian 10-per-cent. is about 26s. and Turkey 11½-per-cent. 32s. 6d. to 33s. 6d. per lb. on the spot.

ORANGE-PEEL.—We notice the arrival of 65 cases new crop so-called Maltese *via* Marseilles; 2s. is wanted, and 1s. 9d. for last year's on spot.

PARALDEHYDE.—Current values are from 13s. to 13s. 6d. per lb.

PEPPERMINT OIL.—American is quiet at from 9s. to 9s. 3d. per lb. net and I.I.G.H. at 13s., London terms.

PHENACETIN is firm at 65s. per lb.

POTASH CHLORATE is extremely scarce and nominal at from 2s. 4d. to 2s. 6d. per lb., and chemically pure 2s. 9d.

POTASHES.—First Government branded Montreal are quoted at 145s. per cwt. on the spot from dealers' hands.

QUICKSILVER is steady at from 16l. 12s. 6d. to 16l. 15s. per bottle.

QUININE.—The second-hand market is extremely quiet at from 3s. 9d. to 4s. per oz. for the usual brands of sulphate, as to seller. The consumptive demand is well maintained from makers' sources.

RESORCIN.—In spite of recent arrivals very little appears to be offered. New York reports sales at \$16.00 to \$17.00.

SAFFRON is steady, with finest Valencia offering at 42s. per lb. net.

SALICYLATES.—Both acid and soda are somewhat easier to obtain, there being more disposition to be satisfied with a reasonable profit on existing stocks.

SHELLAC is dearer, the spot value of the usual standard quality TN being 93s. to 94s. and good 95s.; fine Orange is 125s. to 130s., AC Garnet 87s., GAL 82s. 6d., fine Button 107s. 6d. to 110s. In futures the sales include March at 95s. to 95s. 6d., May 96s. 6d. to 98s., and August 99s. to 100s.

SODA NITRATE is firm at 17l. 10s. per ton for refined and 17l. for ordinary on the spot.

STRAMONIUM-LEAVES are offered at 70s. per cwt. on the spot.

SULPHUR.—Best flowers are quoted 13l. per ton net ex wharf London and roll 12l.

SUMACH.—A Palermo report, dated February 11, states that the market has been very firm, and the purchasing of raw sumach is not at all easy. Many grinders usually make "blank" sales, and are afterwards obliged to pay higher figures in order to meet their engagements. The demand is not very active, but it is normal, and the actual prices will be maintained and probably increased. Ground sumach, 28-per-cent. tannin, 11l. 5s.; sumach in leaves, 28-per-cent. tannin, 10l. 15s. per ton of 1,015 kilos. f.o.b. Palermo.

TARTARIC ACID is dearer at 2s. 10d. per lb.

TERPENE HYDRATE is offered at 2s. 6d. per lb.

THYMOL, ex thyme oil, is offered at from 42s. 6d. to 45s. per lb.

TURPENTINE is 1s. per cwt. cheaper on balance, American closing at 46s. 3d. on spot and March-April 46s. 6d.

VALERIAN.—The 100 bags of Belgian which arrived last week were already sold to consumers.

Arrivals of Chemicals, Drugs, etc.

During the period February 23 to 29 inclusive, the following produce has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.	
Acetic acid (N.Y.) brls. 275,	(R'dam) blns. 7
Aloes (N.Y.) cs. 50	
Arachis oil (R'dam) brls. 720	
Argol (Oporto) pkgs. 555	
Arrowroot (St. Vincent) brls. 1,743	
Arsenio (Oporto) brls. 90	
Barytes (B'deaux) cks. 22,	(Philadel.) 160
Bismuth ore (Sydney) cks. 6	
Calcium borate (Chile) bgs. 1,840	
Calcium tartrate (M'seilles) 200	
Caraway-seed (Holland) 125	
Cardamoms (Ceylon) 21	
Casein (Charente) 335, (Havre) 100	
Castor oil (C'cutta) cs. 300	
Chemical products (Portland, Me.) 15	
Chemical prod. and dyes (Boulogne) pkgs. 172	
Chemicals, medicines, perfumery, etc. (N.Y.) pkgs. 515	
Chillies (Mombasa) 15	
Cinchona (A'dam) 681	
Cinnamon (Ceylon) 250	
Cloves (Zanzibar) bls. 6,050	
Cochineal (Las Palmas) 226	
Coconut oil (R'dam) brls. 300	
Colocynth (P. Sudan) bls. 39	
Copra (Colombo) 1,844	
Cream of tartar (B'deaux) 4	
Drugs (Dieppe) cs. 22	
Egg-yolk (Hankow) cs. 240,	(M'seilles) cks. 14, cs. 37
Ergot (Lisbon) 45	
Essential oils (R'dam) cs. 4,	(A'dam) cs. 8, (N.Y.) cs. 30
Ether (N.Y.) cs. 10	
Farina (N.Y.) bgs. 1,300	
Galls (M'seilles) cs. 100	
Gelatine (Dieppe) cs. 35	
Geranium oil (M'seilles) cks. 4	
Glucose (N.Y.) brls. 779	
Gum acacia (P. Sudan) bgs. 5,159	
Gum copal (Zanzibar) cs. 26	
Ipecacuanha (N.Y.) bgs. 20	
Lime-juce (Trinidad) cks. 5,	(Grenada) hds. 164, pns. 14,
(Dominica) pns. 42, pps. 19,	brls. 2, cks. 59, dms. 53, hds. 12,
(Antigua) brls. 19, hds. 32, cks. 7	
Lime oil (Dominica) cs. 6,	(Trinidad) cs. 3
Linseed (C'cutta) 12,175	
Liquorice-juice (N.Y.) cs. 30	
Lithopone (R'dam) cks. 230	
Mastic (M'seilles) cs. 5	
Medicines, etc. (N.Y.) cs. 1,094	
Milk-powder (N.Y.) cs. 224,	brls. 450, dms. 78, (B. Ayres) cs. 14
Milk-sugar (A'dam) cs. 20	
Mineral waters (France) cs. 1,258	
Mineral white (B'deaux) 1,300	
Molasses (W. I. ports) pkgs. 1,000	
Olive oil (M'seilles) cs. 16,	(Malaga) brls. 14
Opium (Aden) cs. 100	
Peppermint oil (N.Y.) cs. 15	
Perfumery (France) cs. 94	
Perfumery and drugs (Dieppe) cs. 19	
Salicylic acid (N.Y.) brls. 30	
Saltpetre (C'cutta) bgs. 6,961	
Sarsaparilla (N.Y.) bls. 77	
Senna (P. Said) bls. 59, (P. Sudan) pkgs. 181	
Shellac (C'cutta) 771	
Soda benzoate (Treport) cks. 10	
Soda hyposulph. (Philadel.) bgs. 100, brls. 115	
Tamarinds (C'cutta) cks. 200	
Tannic acid (N.Y.) brls. 15	
To Liverpool.	
Acetic acid (N.Y.) brls. 96	
"Acid" (N.Y.) brls. 20	
Albumen (S'ghai) cs. 376	
Anise oil, star (H.-Kong) 70	
Antimony, crude (S'pore) cs. 250, (Rangoon) 178	
Antimony ore (W.C. S. Amer.) bgs. 5,473, (M'bournie) 1,153	
Apricot-kern. (S'ghai) 38	
Barytes (B'lona) bgs. 500	
Bismuth ore (Brisbane) bgs. 34	
Calcium borate (W.C. S. Amer.) bgs. 7,071	
Citric acid (Palermo) cks. 40	
Coconut oil (S'pore) pps. 69	
Copra (S'pore) 794, (W.C. Africa) 543	
Drugs, etc. (Havre) cs. 165	
Dyes (Shanghai) cs. 950	
Egg-yolk (S'ghai) cks. 1,458, cs. 37	
Essential oils (Messina) pkgs. 34, (Catania) 1/2-cs. 13	
Iodine (W.C. S. Amer.) kgs. 256	
Ipecacuanha (B. Ayres) bls. 38	
Lemon-juice (Messina) pps. 15	
Lemon oil (Palermo) cs. 12, 1/2-cs. 14	
Linseed (Rosario) bgs. 1,848, (S'pore) 185	
Liquorice-paste (Catania) cs. 15	
Magnesite (Limni) tons 2,345, bgs. 12,307, (caustic) bgs. 4,990	
Medicines, etc. (Havre) pkgs. 222, (Boston) cs. 53	
Mineral waters (Havre) cs. 175	
Olive oil (Naples) cks. 57, (Genoa) cs. 115	
Olive oil (Malaga) brls. 893	
Palm-kernels (W.C. Africa) bgs. 16,846, tons 12	
Palm oil (W.C. Africa) cks. 406	
Pepper (S'pore) bgs. 507, (Penang) 375	
Perfumery, etc. (Havre) cs. 78	
Potashes (Portland, Me.) cks. 7	
Quillaia (W.C. S. Amer.) 1,414	
Roots (S'pore) bls. 28	
Rosin (Pensacola) brls. 2,000	
Soda nitrate (W.C. S. Amer.) bgs. 5,191	
Sulphur (Catania) pkgs. 13,721	
Tartaric acid (Naples) brls. 10	
Wax, bees' (B'lona) cs. 11	
Deduct 50 cases <i>aloes</i> (N.Y.) and 10 cases <i>essential oils</i>	
To Manchester.	
Glucose (N.Y.) pkgs. 1,140	
Lactic acid (N.Y.) brls. 44	
Lead acetate (N.Y.) brls. 137	
Soda nitrate (Chile) bgs. 69,293	
Soda perborate (N.Y.) pkes. 40	
Soda prussiate (Rouen) cks. 59	
To Hull.	
Acetic acid (R'dam) blns. 21	
Barium perox. (R'dam) dms. 94	
Calcium carbide (Odda) dms. 4,000	
Caraway-seed (Holland) 10	
Carbon black (Ba'more) cs. 250	
Castor-seed (B'har) bgs. 14,406	
Chemical prod. (Go'burg) cs. 6, (Dunkirk) bgs. 544	
Essential oils (A'dam) chys. 5	
Formic acid (R'dam) pkgs. 54, cs. 16, blns. 60	
Linseed (B'har) bgs. 18,123	
Palm-kernels (Lisbon) bgs. 259	
Peppermint oil (Ba'more) cs. 5	
Soda nitrate (Dunkirk) cks. 26	

(Seville) brls. 680. *To Grimsby*.—Ammon. nitrate (Skien) cks. 62; calcium carbide (Odda) dms. 5,000; chemical prod. (Dieppe) brls. 10; colours (Dieppe) pkgs. 1,529; dyes (Dieppe) pkgs. 32; soda nitrite (Skien) cks. 83; tannic acid (France) brls. 37.

Heavy Chemicals.

Manchester, February 29.

The inquiry for all descriptions of heavy chemicals continues good, although in some cases prices are nominal and offerings light. This applies mainly to bleaching-powder, caustic soda, etc. Soda-crystals are quoted at 60s. per ton, in 2-cwt. bags, and ammonia-alkali, 58-per-cent., at 4l. 15s. to 5l. 15s. per ton, both in bags on rail at works (for home delivery). Bicarbonate of soda shows no change, but there is a better demand for bichromate. Alum is offering in very small lots, and where deliveries can be had the price is around 11l. 10s. for loose lump, 11l. 15s. in casks, and ground, in bags, 12l. Sulphate of alumina, 14-per-cent., is 13l. 10s. per ton, on rail Manchester. Sulphate of copper rules firmer, although there is no particular change to note in the raw metal to-day at 47l. 17s. 6d. to 48l. per ton Manchester. Permanganate of potash is higher on the week at 7s. 6d. to 8s. per lb. Most potash-products are nominal. In nitrate of lead local makers refuse to guarantee delivery, and there is a wide range both in this and acetate. Cream of tartar is higher at 192s. per cwt. for 98-per-cent.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of February 4, 5, 7, and 9, 1916:

BALSAMS.—In the preceding months the demand was only very small, and prices varied from m.20 to m.25 for commercial and from m.30 to m.34 for original import. During the last few weeks, however, large quantities have been bought on behalf of the army; consequently the stocks have diminished considerably, and the prices have much advanced—viz., from m.32 to m.35 for commercial, and from m.42 to m.44 per kilo. for original import.

BORAX AND BORIC ACID have also advanced again in consequence of extreme scarcity and active demand; makers ask m.300 for c.p. borax and m.400 for boric acid.

CALCIUM CARBIDE is only sold for prompt delivery by the "Carbid. Verkaufsgesellschaft," as the stocks are only very small; prices have advanced repeatedly, and are now from m.40 to m.42 per 100 kilos.

CEVADILLA remains in good demand; first black is m.350 per 100 kilos.

CITRIC ACID is offered in large quantities, and is cheaper. Prompt delivery is m.14.50, February delivery at m.14 per kilo. Market is rather neglected.

CLOVES.—Zanzibar have again advanced in price in consequence of active demand and increasing scarcity. First Zanzibar are m.390 to m.395.

COD-LIVER OIL.—Medicinal is quoted at m.475 per 100 kilos.

CONDURANGO is firm at m.120 per 100 kilos.

CREAM OF TARTAR is higher, in consequence of increased demand; 99 to 100 per cent. is from m.480 to m.500 per 100 kilos.

ELEMENTS.—All available quantities have been bought by one speculative purchaser. The present owner is offering now at prices which are from 80 to 90 per cent. higher than those paid at the beginning of January. The "Chemiker Zeitung" expresses its regret that dealers of this kind should receive support from buyers.

KOLA is firm and active; first quarters and halves are from m.135 to m.140 per 100 kilos.

LYCOPodium is firm at m.11 per kilo.

MALT.—Since January most of the malt-factories in Austria have ceased work, because of lack of barley. In Russian Poland barley can be had, but the Austrian factories have no chance of obtaining it.

NAPHTHALINE is only obtainable at considerably advanced prices; second-hands ask m.32 per 100 kilos. now.

OILS (ESSENTIAL).—*Star-anise* has advanced to m.17 again, in consequence of increased demand. *Bergamot* is still to be had at m.40. *Clove* is obtainable at m.22. *Globulus eucalyptus* is now m.6.30. Ceylon *Lemongrass* is still to be had at m.7.50. The stocks of Messina essential oils appear to be very large, in consequence of small demand, so that it is not unlikely that prices will become lower. *Menthol* is firm, though the demand has somewhat fallen off; m.52.50 is quoted. Japanese *Mint* oil remains unchanged. The nominal value of Siberian *Pine-needle* oil is m.5.50.

QUININE.—Makers have again advanced prices, sulphate being advanced by m.9 per kilo. and hydrochloride by m.12 per kilo.; sulphate (Ph.G. II.) is now m.65 to m.70 per kilo.; quinine (Ph.G. V.) from m.75 to m.80; hydrochloride (Ph.G. II.) from m.87 to m.92; hydrochloride (Ph.G. V.) from m.97 to m.102 per kilo.; above these prices a "Kurszuschlag" of 20 per cent. has to be paid.

Trade Notes.

"COW AND GATE" MILK FOODS.—The revised price-list of the West Surrey Central Dairy Co., Ltd., Guildford, is given in this issue, together with trading terms.

LADY DISPENSERS.—Elfr's College of Pharmacy, Ballard's Lane, North Finchley, London, N., issue a special circular dealing with the examinations and courses of study for lady dispensers.

CHEMICALS.—A. D. Chester & Co., Ltd., Chemical-works, Drummond Road, Bermondsey, London, offer sodium sulphate and other pharmaceutical chemicals, some of which are at present difficult to obtain.

THE PASTILLE MONTH.—This is March, when many special forms of pastilles are in demand. The advertisement of Jules Denoual & Co., Carlton Works, Asylum Road, London, S.E., in this issue is therefore timely and suggestive.

PROTECTED LIST ADDITIONS.—The following have been added to the protected list of the Proprietary Articles Trade Association: Ayrtton & Saunders' milk-tablets and milk-powder; A. H. Cox & Co.'s Iodomints; Williams' face-powder and mechanics' paste.

BRILLIANTINE AND B.P. OINTMENTS.—There are six good selling points in connection with the "Regnas" semi-solid brilliantine that chemists should look into. They will be found in Sangers' advertisement in the present issue, together with a new style of packing B.P. ointments.

SHOP-FITTINGS.—At the British Industries Fair we noticed some fine samples of shop-fittings on view made by Philip Josephs & Sons, Ltd., of 93 Old Street, E.C. In the advertising pages this week Messrs. Josephs offer these for sale, and chemists have the chance of one or two bargains.

SPIRIT-SUPPLIES.—A. Macnair & Co., Dolphin Distillery, Ardwick, Manchester, from whom many chemists obtain their supplies of methylated spirit, also make absolute alcohol, rectified spirit, and fusel oil. The firm supply wines and potable spirits to chemists holding licences, and are proprietors of the "Luckenbooths" Scotch whisky.

BISMUTHATED MAGNESIA LOZENGES.—By an error in the advertisement of Thos. Guest & Co., Ltd., Carruthers Street, Ancoats, Manchester, regarding bismuthated magnesia lozenges, the quantities in the special cash offer were wrongly stated. These should read, "For 30s. cash we will forward 6 doz. 6d. tins and 4-lb. jar of lozenges, with showcards, carriage paid, packages free, retailing at 57s."

SULPHUR TABLETS.—Arthur H. Cox & Co., Ltd., Brighton, have a large sale for their sulphur tablets, which are nicely finished products, each impressed with the name "Sulphur tablets." These are sold in bulk and also in small packages, costing 10s. per thousand, ready for retail. There is a space upon the label for the name and address of the seller. Chemists who are interested in this spring medicine should write to Messrs. Cox's for a sample.

SODA-FOUNTAINS.—L. Lumley & Co., Ltd., The Minories, London, E., who are agents for the "Red Cross" soda-fountain, give an illustration of it in their advertisement in this issue. A recommendation is made to chemists that consideration should be given to the advisability of installing a soda-fountain in the pharmacy. We have seen a copy of the price-list of the Bishop-Babcock-Becker Co., which is beautifully produced. It measures 10½ by 14 in., consists of about sixty pages, and is illustrated with numerous photographs in colour of soda fountains.

MONOMET is a British-made developing agent for use in place of metol, although it is not the same chemically. It is made by the White Band Manufacturing Co., Ltd., Progress Works, South Croydon, and in all published formulae may replace metol except that the strength of "Monomet" in solution should not exceed 1½ gr. to the ounce. In stronger solutions than that there is a tendency to precipitation in the presence of an excess of sodium sulphite. "Monomet" is sold in tins at the following rates: 1 lb., 80s.; ½ lb., 22s. 6d.; 1 oz., 6s.; and ¼ oz., 1s. 9d.

T. J. SMITH & NEPHEW, makers of hospital supplies, Tadman Street, Hull, are extending their factory.

CARNEGIE BROS., wholesale and export dealers in fine chemicals and surgical dressings, late of 33-35 Charterhouse Square, have removed to 227-229 Essex Road, London, N.

T. T. ROBINSON & Co., Manchester House, Aldersgate Street, London, E.C., have been appointed buying-agents for the Continental and Oversea Trading Co., Ltd., which has branches in Paris, Copenhagen, and the Ivory Coast.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

What is Cost-price?

SIR,—There is no doubt "Alpha" has put his finger on the weak spot in the Tariff. Cost-price is bad, but when interpreted as it has been by the Commissioners, and apparently agreed to by chemists' representatives, it is almost a crime, if not an incentive to fraud. The wholesale houses for many years have always divided the whole-sale pound rate by twelve to find the price per ounce. I suggest as a solution that the Tariff be quoted per ounce, the ounce price being found by the wholesalers' method; the exact division to the hundredth part of a penny is absurd; in fact, the method is impossible. No man can get eight pints from a gallon of emulsion, or measure liq. strychnine in minims, without some waste. When we turn to plasters, lint, capsules, etc., the position is even worse. I suggest that pills, tablets, capsules, etc., be quoted per dozen, as in the old Tariff, without dispensing-fee or 0.8d. flat rate. Lint when purchased in 1-oz. packets from the manufacturer costs 4d. per lb. more than the pound rate, but on the Tariff no such allowance is made. In Liverpool the matter is to be debated, and if possible a national programme will be worked out. Our leaders in London do not lead. Let us pull together, frame a number of cardinal principles, and insist that these points be regarded as the absolute minimum. The present system is utterly unbusinesslike, and can only lead to bankruptcy.

Liverpool.

Yours truly,
G. KENNEDY.

"Purifying British Trade."

SIR,—Your article on "Purifying British Trade" suggests a line of action which I recommend to the Department of the Board of Trade interested in dealing with such questions. We are all looking forward to the termination of the war, but we are not in the mood to shake hands with Germans and be friends as if nothing had ever happened. I am one of those who at first thought that trade reprisals would do us more harm than good, but I have come round to the view that we must look forward to no kid-glove handling of Germany in the future. You may depend upon it that, however much we may purge our trade of German firms and of those who, ostensibly British, are Germans at heart, there will always be a residue of innumerate traders who will get through the sieve, and who are only waiting to begin again the importation of German merchandise. My suggestion is that a strict watch be kept on every importer of German manufactured goods, be it synthetic drugs, dyes, or anything else, and that these firms be compelled to supply regular and detailed returns of all their imports. If it happens, as it has happened in past years, that large quantities of chemicals, for example, are being imported, and that no corresponding manufacture is being carried on in this country, it should be the duty of the Board of Trade to arrange, preferably by bounties, for such manufacture in this country in order that we may in as short a time as possible render ourselves independent of Germany. The high-handed action of the German Government towards Dutch traders is only an indication of what will be in store for every country that places itself in the power of Germany, and we must see to it that no such power is ever attained over this country.—Yours truly,
ARGUS. (39/91.)

Lighting Regulations.

SIR,—In reference to the note in the C. & D. as to the police not allowing the use of semi-transparent shades on lamps in chemists' windows in the North, and the consequent total darkness that is caused, entailing loss of trade, perhaps our experience may be of use to other chemists. We were informed that the semi-transparent shades we were using were not satisfactory, as no light must show on the pavement outside. We therefore placed in our windows a dark-room lamp, placing it back to the window. This simple arrangement lights the interior and at the same time prevents any light passing outwards, and is satisfactory from the police point of view.—Yours truly,
Hampstead
SANGSTER & Co.

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1916, beginning on page 341.

H. B. (145/3).—**LABEL FOR EYE-LOTION.**—There are several grounds of liability for stamp-duty in the label you submit. It is held out as "soothing," "healing," and as good for "inflammation" of the eye. If you made the necessary disclosure, it could be sold as a "known, admitted, and approved remedy."

N. L. (143/41) and *H. A. M.* (145/18).—**KNOWN, ADMITTED, AND APPROVED REMEDIES.**—The unregistered chemists who are allowed under the Medicine-stamp Acts to sell these remedies without incurring liability for stamp-duty must have served an indentured apprenticeship. (See *The Chemist and Druggist Diary*, p. 417.)

Mercy (141/50).—**SHOPS ACT.**—A two-thirds majority is necessary for orders under the Shops Act for exempted businesses—*e.g.*, "the sale of medicines and medical and surgical appliances"—and all businesses carrying on the same trade require to be consulted. From what you write, it is clear that you have not the necessary majority in favour of an exemption order.

G. D. (140/46) took a house for a year, and has received an account from the agents who acted on behalf of the landlords claiming 10s. 6d. for half the cost of preparing the tenancy agreement and 10s. for stamp-duty. Must "G. D." pay the account? ["G. D." is not legally bound to pay the account unless he has agreed to do so. There is no binding custom for the tenant to pay the costs of a tenancy agreement, though it is usual for the tenant to pay, at any rate, part of the costs. We advise "G. D." to pay the account, which is quite a reasonable one, and take up the agreement, as otherwise he will have no evidence of his tenancy. We cannot say whether the stamp-duty is correct without knowing the amount of the rent.]

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Opening for Women.

W. W. (143/43) writes: "I should feel obliged if you would let me know what openings there are, also the probable remuneration, for a girl who is willing to train as an analytical chemist, with a view to entering a manufacturing chemist's. Are there any other fields for a trained woman?"

The Preparation of Kava.

Ki-Viti (141/9), writing from Bombay, states: "I was very interested in the remarks made by Mr. Thos. Steel, Sydney, N.S.W., regarding kava (*C. & D.*, January 8, p. 78), but if he is describing the method by which the Fijians make kava he is quite wrong. The Fijians do not chew kava-root at all during the process of making the drink. I was told this method was stopped by the Government, but think it died out when the Fijians became Christians. I lived in the Fiji Islands over two and a half years, and have had a good many bowls of yangona. It is made on the spot by crushing the root. The root is placed on a large stone and pounded by another one; then it is placed in the yangona-bowl and water is poured upon it and allowed to stand for a little time; then it is well stirred, and eventually strained by a bundle of fibre, as described by Mr. Thos. Steel. The Fijians call the drink yangona. It is intoxicating, but in a peculiar manner; it affects the limbs only. I have seen many Fijians, after drinking a number of bowls, not able to walk, but it does not affect their heads. In olden times the natives used to chew the roots and expectorate the saliva into bowls; afterwards the procedure was as described by Mr. Steel, but only maidens (virgins) were allowed to chew the root. This information was given me by a Fijian prince and confirmed by other Fijians at different times and in different parts of the islands."

Jay Mackisms

(as he writes them).

A dream, à la Froissart, after reading the *C. & D.*
Sir Richard de Brompton spake unto the Apothecaries of Liverpool: quoth he:

1. Look at me, ye varlets; a'ter forty years of the counter. Don't I look well on it?

2. They say three of ye are growing where only one would flourish: why not unite two businesses or three

into one: give ye more time for meals. (*Aside.*) Some of you need filling out a bit!

3. Women will soon be the only assistants entering your craft: but I am sure they won't join drug companies, as some of you men have done. (*Aside.*) Women are the very devil in a shop: and I hope none of these varlets will trip me up on doctors covering the unqualified.

Perdition take these 600 scullions! Why don't they leave the service of Sir Jesse de Trent?

4. The future is bright if you keep up your profits and stop being jealous of each other: look how these wholesalers can do it—they are all thriving. (*Aside.*) By your help, of course, in spite of their old-time methods.

5. But you must educate! *educate!* EDUCATE! Even if you never be State apothecaries, you must stick to the old watchword so useful to many political wirepullers (adopted after the Crimea). (*Aside.*) I fear me, we are in a muddle with expensive schools and mis-education, but mayhap the new watchword "*Dyces*" will save us, though I prefer "*Tariffs*" myself.

6. The Cabinet's new Education Act will . . . but I dare not give secrets away. (*Aside.*) It won't help the drug-trade when it comes, but I am not to blame for that.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these, they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

W. T. W. (140/61).—**MANUFACTURE OF CARAMEL.**—The following is the process as carried out on a manufacturing scale:

About 5 cwt. of good white glucose is melted in an iron vessel at 95° C. It takes about an hour to melt all the glucose, and this is then brought to boil at 110° C. Next 45 oz. of ammonium carbonate and 15 oz. of ammonium chloride are added, and the mixture allowed to boil down, with occasional stirring, until the caramel "comes on," which is about two hours after the boiling. This change is very noticeable, not only on account of the increase in volume of the caramel to about double, but because of the evolution of greyish-yellow vapour, which is very pungent and stains the hands yellow. The temperature of "coming-on" is about 154° C. The heating is continued until the caramel is so thick that it can only just be agitated. This takes about another hour, but the time varies. The heat is now turned off. If solid caramel is required it is now thrown out on iron plates, allowed to cool, and broken up with hammers. If fluid caramel is being made, sufficient liquor is added to produce a solution of the required density. Heat is applied and the caramel allowed to dissolve without stirring. The required density is then arrived at either through boiling or adding more liquor. The fluid caramel is then passed through sieves and stored in iron tanks.

On a small scale the following method is used:

To make a pint of caramel, put 14 oz. of sugar into a copper pan, 8 inches or more in diameter, and beat the pan by means of a Bunsen or Fletcher flame turned low down so that the fusion of the sugar may proceed slowly but steadily. Stir all the time with a glass rod. Ere long the sugar begins to blacken and swell up, and as the vapour is somewhat irritating to the eyes, it is advisable to conduct the operation near a window open at the top. When the sugar begins to thicken and blacken, it should be occasionally tested by putting a drop on a cold ointment-slab, and whenever one of these drops becomes brittle and looks black, the heating should be stopped. Now add carefully to the contents of the dish 8 oz. of boiling water: this should be done at first only at the rate of a few drops at a time, as there is considerable evolution of steam, the mixture being well stirred meanwhile; and as enough syrupy caramel to pour off collects, this should be poured into a porcelain dish or jug kept handy, more of the boiling water being then added, and so on.

A. D. (130/16).—**SEPARATION OF FATS.**—Twitchell's patent for producing glycerin and fatty acids from oils and fats is 4741 of 1898. Castor-oil ferment for use in the saponification of oils and fats is prepared according to the method described in Nicloux's patent 8304 of 1904. We do not think the ferment is an article of commerce.

Pain-killer (129/33).—**WORM-POWDERS FOR CHILDREN**, FREE FROM SANTONIN.—See *C. & D.*, February 6, 1915, p. 56.

W. S. (144/49).—**TRACING-CLOTH** such as you send is generally cleaned by rubbing with benzine applied by means of cotton-wool. The glaze is lost by any method of cleaning, so that it is customary to rub the place afterwards with paraffin wax.

Martyr (112/72).—CHRONIC CORYZA.—The condition in the case you mention is most probably due to an enlarged inferior turbinated bone. The condition is aggravated by a damp climate, and you appear to have used most of the orthodox remedies—short of operation. The condition can be considerably ameliorated by sniffing through the nostrils into the back of the throat once or twice daily a mild alkaline lotion. The following is a convenient formula:

Boracic	...	...	...	5ij.
Aquam ad	...	...	...	5viij.

to which may be added a little thymol and ol. eucalyptus, ol. gaulther., and ol. menth. pip. The lotion should be mixed with an equal quantity of warm water before use. If this does not give the necessary relief a nose specialist should be consulted. If the anatomical condition to which we have referred is the cause of the complaint the specialist will probably recommend cauterisation or removal of the turbinated bone.

J. P. (131/57).—LITTLE LIVER-PILLS. The formula for which you ask is as follows:

Aloin.	...	...	...	gr. $\frac{3}{10}$
Podophyllin.	...	...	...	gr. $\frac{1}{2}$
Ext. hyoscy.	...	...	...	gr. $\frac{1}{80}$
Jalapin.	...	...	...	gr. $\frac{1}{16}$
Ext. nuc. vom.	...	...	...	gr. $\frac{1}{16}$
Oleores. capsici	...	...	...	gr. $\frac{1}{80}$

Ft. pil.

The reference number that can be used with this is *C. & D. Diary* No. 10, or P.F. 1.

N. S. (129/45).—BOOK ON MILK-ANALYSIS.—Pearmain and Moor's "Analysis of Food and Drugs: Part I. Milk and Milk Products" (Baillière, Tindall & Cox, 6s.).

D. B. (132/8).—BOOKS ON RUBBER-MANUFACTURE.—Weber's "Chemistry of Indiarubber" (Griffin, 16s.); See-ligman's "Indiarubber and Guttapercha" (Scott, Greenwood, 12s. 6d.). You do not explain what you require to do with the rubber teats; if you have an idea of making rubber solution with them you should try prolonged digestion in carbon bisulphide.

J. E. R. (18/2).—PHARMACY-POT.—The inscription "P. Hermodact." refers to a laxative pill made from a species of colchicum, probably *Colchicum variegatum*, which was used in ancient medicine under the name hermodactylus. The slight variation in the spelling which your copy of the name shows is not unusual. Some confusion has arisen over the word hermodactylus, as Linnaeus refers to a drug of this name which he attributed to *Iris tuberosa*.

J. H. S. (9/2).—CEMENT FOR MICA SQUARES in an anthracite stove.—These are usually fitted so as to allow for expansion. If a cement is required the following is suitable:

Barium sulphate or kaolin	...	100
Calcined magnesias	...	1
Slaked lime	...	2
Sodium silicate (33° B.)	...	75

Mix.

W. F. (122/27).—HAIR-DYE.—The formula given in the *C. & D.*, July 10, 1915, p. 58, is a good one for a one-solution silver-free dye. For a two-solution silver dye the following are good recipes (A and B denoting the two formulae), but you should carefully test them on hair before launching them on the public. If the colour obtained is too dark the dye needs diluting.

A.		B.	
No. 1 Bottle.		No. 1 Bottle.	
Acid. pyrogal.	... 3ss.	Sodii sulphidi xtl.	3j.
Sodii metasilphit.	gr. x.	Aqua	... 3iij.
Aq. ad	... 3ij.		
No. 2 Bottle.		No. 2 Bottle.	
Argent. nit.	... 9j.	Argent. nit.	... 9ij.
Liq. ammon. fort. q.s.		Cupri sulph.	... gr. $\frac{1}{4}$
Aq. ad	... 3ij.	Liq. ammon.	... 3iij.
		Aq. ad	... 3iij.

Dissolve the nitrate in $\frac{1}{2}$ oz. water, add ammonia until the precipitate is redissolved, and make up to 2 oz. with water.

Chemist (N.Z.) (116/45).—HAIR-DYE.—The amidol formula as follows keeps better if acidulated, but then the action is slower:

Amidol	...	...	gr. lxxx.
Sodium sulphite	...	...	3ij.
Alcohol (10-per-cent)	...	...	3j.

This dye does not stain the skin, states Martindale's "Extra Pharmacopoeia." See also reply to "W. F."

E. H. (133/7).—MARKING-INK.—So far as we are aware the ink you refer to is a silver marking-ink, for which the following is a good formula:

Silver nitrate	...	...	5ij. 3ij.
Sodium carbonate	...	...	3iij.
Tartaric acid	...	...	3ss.
Solution of ammonia (.88C)	...	...	3iijss.
Archil	...	...	3j.
Paste chlorophyll	...	...	3j.
Powdered acacia	...	...	3iijss.
Sugar	...	...	3ss.
Water	...	...	a sufficiency

Dissolve the silver and soda salts separately, each in 2 pints of boiling water, and mix. Allow the precipitate to settle, decant the fluid, and collect the precipitate on a paper filter; wash with a pint of water, and, when drained, transfer to a mortar; add the acid (in powder) and mix. When effervescence has ceased add the ammonia solution, stir to dissolve, and transfer to a bottle containing the sugar (powdered). Mix the chlorophyll with 4 oz. of water and the archil, add the acacia to this, and, when dissolved, strain. Now add the ammoniacal solution and make up to 20 oz. with water.

L'pool (139/16).—The proprietary medicine you mention is one of those vegetable compounds which are not amenable to analysis—at least, no analyst has so far recognised in it any active principle.

Calomel (106/63).—"The Prescriber" is published at 6 South Charlotte Street, Edinburgh.

Mersey (141/50).—POTASSIUM QUADROXALATE for use as "salts of lemon" is prepared by adding 75 parts of potassium chloride to 253 parts of oxalic acid, both in saturated solution, or by neutralising a fourth of a given volume of oxalic acid solution with potassium carbonate, mixing with the rest of the acid solution, and crystallising. The crystallised salt is generally mixed with cream of tartar for sale as salts of lemon.

J. N. N. (145/10).—SOLUBILITY OF VANILLIN.—Vanillin is soluble in 100 parts of water at 25° C., and easily soluble in spirit. You are probably using too small a proportion of spirit in the syrup you make.

P. G. C. (141/46).—(1) CHERRY COUGH-LINCTUS, P.F.—The following is the only formula of this or similar title in "Pharmaceutical Formulas" II.:

Rad. ipecac.	...	...	3ss.
Rad. scillae	...	...	5x.
Bals. tolu.	...	...	3ss.
Cort. pruni virg.	...	...	3ij.

Exhaust by percolation with weak alcohol, reserve the first 60 oz. of percolate, evaporate the remainder to a soft extract, and dissolve it in the reserved portion; then add:

Ac. citric.	...	...	3ij.
Sp. chloroform.	...	...	3ij.
Glycerin.	...	...
Syr. cerasi aa. q.s. ad	...	...	Oij.

Misce.

(2) Your inquiry regarding the cough-mixture given in the Winter Issue (p. 155) is not clear. The ingredients for the special chlorodyne required are given in the formula.

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Gelatine for Bottle Capsules.

At the February Pharmaceutical Meeting Mr. A. F. Haselden read a highly-suggestive paper "On the Employment of Gelatine in place of Metal for Bottle Capsules." After reading a long extract from the article in "Temple Bar," which we reprinted last month, Mr. Haselden described the experiments he had made in capping bottles with the preparation recommended by the writer of that article—namely, melted gelatine, to which a certain proportion of glycerine (about one ounce and a-half to the pound) has been added, to give it pliability and toughness. Mr. Haselden informs us that since the reading of his paper he had exposed some bottles capsuled with gelatine to the influence of a very damp atmosphere, and though the capsules have become plastic they are not sticky, and consequently would not cause annoyance or inconvenience by adhering to the paper in which the bottles were wrapped, supposing they were exposed to accidental moisture.

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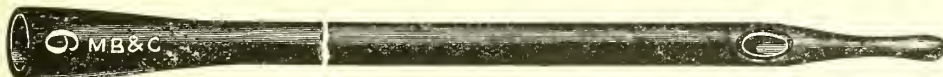


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Resorcin, B.P., 1 lb. @ 82/- lb.

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Sang. Draconis, pulv., English Ground, 7 lbs. @ 2/8 lb.

Santoninum, P.B., 16 oz. @ 165/- lb.

Sapo Cast. Alb., 2 cwt. @ cwt.; 7 lbs. @ 7½ d.; pulv., 1 cwt. @ 105/- cwt.; 56 lbs. @ 108/- cwt.; 7 lbs. @ 1/1 lb.; Animal pulv., 1 cwt. @ 7/- cwt.; 56 lbs. @ 78/- cwt.; 7 lbs. @ 10d. lb.

Scammony Resin, Pulv., B.P., 7 lbs. @ 4/9 lb.; 1 lb. @ 5/3 lb.

Shellac (Orange), 1½ cwt. @ 94/6 cwt.; 7 lbs. @ 1/- lb.

Soda Caustica, 6 1-lb. bots. @ 2/8 lb.

Soda Cit., B.P., 3 lbs. @ 4/1 lb.

Soda Sulphite, Recryst., 1 cwt. @ 21/6 cwt.; 7 lbs. @ 4d. lb.

Soda Sulphocarbolas, B.P., 7 lbs. @ 3/8 lb.; 1 lb. @ 3/11 lb.

Sodil Bromid., P.B., 7 lbs. @ 21/- lb.

Soda Hyposulphite, pea cryst., 1 cwt. @ 22/- cwt.

Sodil Salicyl. Pulv., 2 lbs. @ 23/- lb.

Spt. Ether Nit., P.B., 4½ lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.

Strontia Bromid., 1 lb. @ 22/- lb.

Strychnina Cryst. B.P., 4 oz. @ 3/2 oz.; Hydroch. and Sulphate, 2d. oz. less.

Sugar of Milk, P.B., 1 cwt. @ 87/- cwt.; 7 lbs. @ 10d. lb.

Sulphonol, P.B., 1 lb. @ 48/- lb.

Syr. Aurant. P.B., 7 lbs. @ 11½ d. lb.

Syr. Easton, B.P., 7 lbs. @ 1/3 lb.

Syr. Ferri Iodid. P.B., 7 lbs. @ 1/7 lb.

Syr. Ferri Phosph. Co., 7 lbs. @ 7½ d. lb.

Syr. Hypophosph. Co., B.P.C., 7 lbs. @ 1/1 lb.

Syr. Prunl Virg. B.P., 8 lbs. @ 9½ d. lb.

Syr. Rhamni, 7 lbs. @ 1/0½ lb.

Syr. Rhei, P.B., 7 lbs. @ 10½ d. lb.

Syr. Scilla, P.B., 7 lbs. @ 7d. lb.

Syr. Senna, P.B., 7 lbs. @ 11½ d. lb.

Syr. Simplex, 7 lbs. @ 6d. lb.

Syr. Tolut, P.B., 7 lbs. @ 10d. lb.

Thymol, 1 lb. @ 48/-.

Tinct. Aurantii Recens., B.P., 5 lbs. @ 4/2 lb. Aquos, 11d. lb.

Tinct. Belladon. B.P., 5 lbs. @ 4/8 lb. Aquos, 1/10 lb.

Tinct. Benzoin Comp., P.B., 5 lbs. @ 4/4 lb.

Tinct. Camph. Comp., P.B., 5 lbs. @ 3/- lb. Aquos, 1/2 lb.

Tinct. Cantharidis, P.B., 5 lbs. @ 4/8 lb.

Tinct. Capsici, B.P., 5 lbs. @ 3/2 lb. Aquos, 11d. lb.

Tinct. Card. Comp., P.B., 5 lbs. @ 2/7 lb. Aquos, 1/1 lb.

Tinct. Catechu, P.B., 5 lbs. @ 2/11 lb. Aquos, 1/1 lb.

Tinct. Chlorof. c. Morpb., P.B. 1885, 5 lbs. @ 2/5 lb.

Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/7 lb.; bond, 1/0½ lb. Aquos, 1/3 lb.

Tinct. Cinchon. Rub., P.B. 5 bs. @ 3/6 lb. Aquos, 1/3 lb.

Tinct. Digitalis, B.P., 5 lbs. @ 3/11 lb. Aquos, 1/1 lb.

Tinct. Gelsem., P.B., 5 lbs. @ 3/4 lb. Aquos, 1/4 lb.

Tinct. Gentiana Comp., B.P., 5 lbs. @ 2/4½ lb. Aquos, 1/1 lb.

Tinct. Hyoscyam., B.P., 5 lbs. @ 4/4 lb. Aquos, 1/10 lb.

Tinct. Iodi., B.P., 5 lbs. @ 5/3 lb.; Fost. @ 6/9 lb.; decolor., 5 lbs. @ 5/5 lb.

Tinct. Lavandula Comp., B.P., 5 lbs. @ 4/7 lb. Aquos, 1/1 lb.

Tinct. Myrrha, B.P., 5 lbs. @ 4/5 lb.

Tinct. Nucis Vom., B.P., 5 lbs. @ 3/7 lb. Aquos, 1/4 lb.

Tinct. Opil., B.P., 5 lbs. @ 5/10 lb.

Tinct. Opil. Aquos, 5 lbs. @ 4/1 lb.

Tinct. Quinina Amm., B.P., 5 lbs. @ 3/9 lb.

Tinct. Rhei Co., B.P., 5 lbs. @ 2/4½ lb. Aquos, 1/1 lb.

Tinct. Scilla, B.P., 5 lbs. @ 2/10 lb. Aquos, 11d. lb.

Tinct. Senega, P.B., 5 lbs. @ 3/7 lb. Aquos, 1/6½ lb.

Tinct. Strophantb., P.B., 5 lbs. @ 4/3 lb.

Tinct. Valeriana, 5 lbs. @ 3/4 lb. Aquos, 1/2 lb.

Tinct. Valeriana Ammon., P.B., 5 lbs. @ 3/8 lb. Aquos, 1/4 lb.

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Ung. Acid. Carboli., B.P., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/6 lb.

Ung. Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 3/10 lb.

Ung. Hydragryr., B.P., 28 lbs. @ 2/9 lb.; 7 lbs. @ 2/11 lb.

Ung. Hydragr. Ammon., B.P., 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/7 lb.

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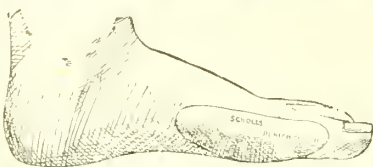
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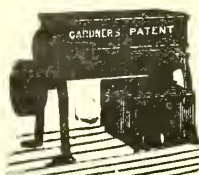
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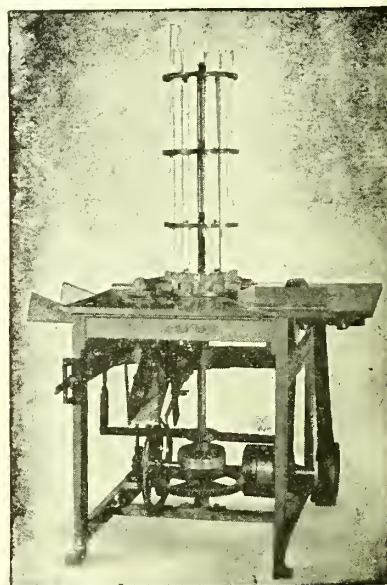
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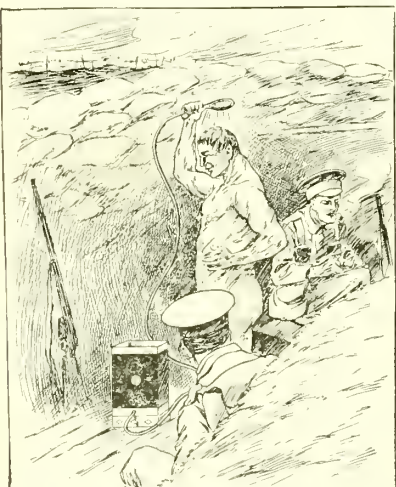
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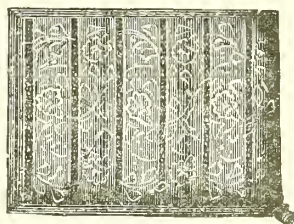


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A high-grade
Toilet Soap of
marked Antiseptic
properties.
Non-irritating.
Agreeably perfumed.
Lathers in hard water.
Assists the complexion.
Heals cuts & abrasions.
Invaluable in the
Nursery.

TOILET SOAP, 9d. SHAVING SOAP, 8d.

A READY SELLER WITH GOOD PROFIT.

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FOR THE HAIR.

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Guaranteed refined from PURE RUSSIAN crude only.

The Pure Russian Liquid Paraffin Co., Ltd.

REFINERS in ENGLAND { **3 St. Helen's Place, LONDON, E.C.**
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Buy from one of the Oldest Houses in the Trade.

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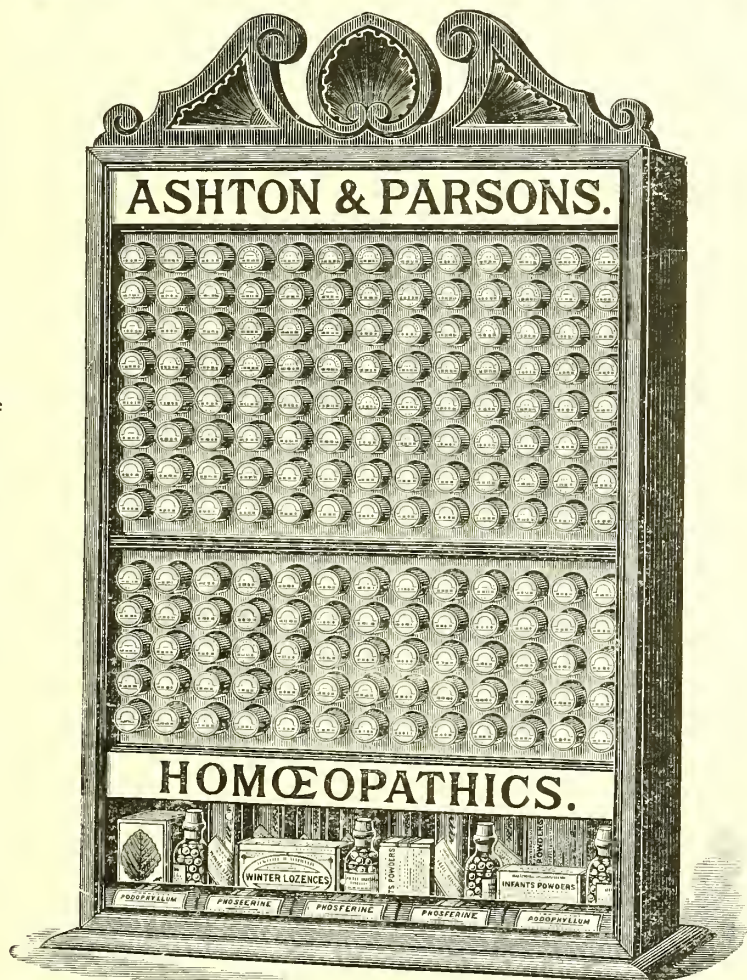
SAMUEL THORNLEY, LTD., BIRMINGHAM

Petroleum Jelly

White, Yellow, Amber,
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Pharmaceutical and
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LIVERPOOL . . . MANCHESTER

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CREWE, LTD. (CREWE)
HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only
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Address.**LARGEST SALE IN THE WORLD.****DAYS' BLACK DRINK**

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills, and Low Condition in all Stock.

Price 1/8 per bottle.

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Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

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DAYS' "ZOMO-SAL."

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

DAYS' RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colic, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz.

DAYS' OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

DAYS' WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgal, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.

**DAY & SONS' "ORIGINAL" MEDICINE CHEST**

Price £1 4s., £2 4s., £5, and £10 10s.; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock. WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

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DAY & SONS, CREWE, LTD.,
CREWE, ENGLAND.
LIBERAL TERMS FOR FOREIGN BUYERS.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 4, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.** Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED the MONEY is TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

← That is what advertisers in
The Chemist and Druggist
Supplement secure. Not in-
definite returns from spasmodic and inflated
circulation, but regular, steady success—the
best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

HIGHGATE (Near).—Price £650, or valuation of stock and fixtures and small premium for lease and goodwill; a good but neglected business, returning, under assistant, between £1,000 and £1,100; gross profit £437; books audited by accountant and valued annually.

CITY (Near).—Brisk Retail and N.H.I. Dispensing, giving net income of £700; full investigation courted; price £1,300; partnership would be considered.

HOME COUNTY (Within Easy Distance of West End).—Good-class Retail and Dispensing Business, rapidly increasing; returns, present rate, £1,500; well-appointed shop and full working stock, all open to inspection; valuation and small premium only required.

LONDON, S.E. (Residential Locality).—Retail and Dispensing Business; no N.H.I.; returns £900; net profit £249; comfortable residence; price £450; part payment would be entertained; worth attention.

LONDON, N. (Main Thoroughfare).—Price about £350, which is approximately the value of stock and fixtures; returns £900 to £1,000, all ready money; gross profit 50 per cent.; corner shop, double fronted; rent £62; trams and buses pass the door; must suit once.

LONDON, S.W. (Main Thoroughfare).—Cash Retail for immediate Disposal for less than value of stock and fixtures; returns £1,000 weekly, formerly £800 yearly; price £100, or near offer; ill-fitted reason for disposal.

7.—LONDON, W.—Retail and Dispensing Business, with Optical connection; returns about £1,000; no serious opposition; price £450, for which full value is offered.

8.—GLOUCESTERSHIRE.—For immediate Disposal, through ill-health of proprietor, good-class Retail and Dispensing Business, capable of extension; returns about £1,350; to effect a speedy transfer no reasonable offer will be refused.

9.—KENT (Seaport).—Ready-money Business; returns show a steady increase, present rate £650; net profit £200; rent £40, which includes residence; no opposition; price £350; part can remain.

10.—KENT.—Unopposed Business, situate in charming locality; returns £900, at fair prices; good residence, with private entrance; price £500.

11.—SOUTHAMPTON (Near).—Death vacancy; good-class Retail and Dispensing Business; returns between £1,400 and £1,500, at good prices, above the average; price £800, or £250 for goodwill, stock and fixtures at valuation.

12.—SUSSEX.—Good-class Country Retail and Dispensing Business; excellent position; no serious opposition; returns over £825; net profit £300 (proof given); price £750.

13.—HOME COUNTY (Within Easy Distance of London).—Genuine Retail trade; returns between £1,050 and £1,100; net profit exceeds £300; price £950.

14.—DEVON.—Unopposed Business; returns under unqualified management £350; net profit £152; opening for extension; large house and garden; rent £30 inclusive; price £175, or offer.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of the Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS
NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£2,725 returns.—SURREY.—First-class Retail and Family trade, with some valuable own Preparations having a well-established sale without advertising; net profit nearly £600; price, three years' net profit or £250 goodwill and stock and fixtures at valuation; family reasons cause of sale.

£1,100 returns.—ESSEX.—Light Retail and fair Dispensing; favourite resort; price £600, or £100 goodwill and valuation of stock and fixtures.

£1,700 returns.—LONDON (Easy Distance of).—Old-established Family, Retail, and Dispensing; well-appointed shop and good residence; net profit £425; price £1,300, or £200 goodwill and stock and fixtures at valuation.

£1,000 returns.—YORKS.—Middle-class Retail and N.H.I.; net profit over £300; low rent; price £650.

£600 returns.—LANCS.—Very profitable Retail, from which vendor is retiring; a thoroughly genuine little Business that could easily be considerably increased by more energetic man; price £220.

Valuations conducted upon the shortest notice at moderate fees.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—HOME COUNTY (15 Miles Out).—Light Family Retail and Dispensing, with Dentistry; pleasantly situated; returns over £1,000, increasing; net profit £308; books properly kept; modern house, bathroom and large garden; well fitted and stocked; price £650; strongly recommended.

2.—SOUTHERN COUNTY (Fashionable Town).—First-class Retail and Dispensing Business; returns £1,200; profits half; plenty of scope; fine position; price £700, or £100 and valuation; personally inspected and recommended.

3.—MIDLANDS (Death Vacancy).—Good-class Retail and Agricultural, in market town; easy hours; returns £900; net profit £300; low rent; price £475.

4.—KENT.—Unopposed good-class Country Retail, delightfully situated; returns about £1,000; books properly kept; nice house and garden; well-stocked shop; price £500; good introduction.

5.—WILTS.—Old-established General Country Retail; unopposed; returns £1,200; net profit £300; large house and garden; low rent; heavily stocked; price £700, little more than valuation.

6.—ESSEX.—Unopposed Village Retail; easily worked; returns £350; net profit £120; good house and large garden; domestic reasons sole cause of sale; price £100, less than valuation.

7.—N. DEVON.—Unopposed Light Country Retail; plenty of scope in qualified hands; net profit £152; modern house, bathroom and large garden; price £175, or offer.

8.—LONDON, S.E.—Middle-class Suburban trade; no Panel; returns £900, increasing; net profit £250; no opposition; well fitted and stocked; price £400.

9.—LONDON, N.W.—Sound Cash Retail, in busy main road; returns over £1,100; net profit £275; good house and large garden; well-stocked Pharmacy; price £475.

STOCKTAKING v. INCOME TAX.

Every chemist should make a point of reading page 135 in *C. & D. Diary*, which deals with the above matter, and then write for our special pamphlet and low terms.

Forty-five years' practical experience.

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MEGGESON & CO., LTD.

BARCLAY & SON, LTD.

Tel. No. Finchley 812.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W., Ph.C. Tel. No. Victoria 77.

Valuer to Association of Manufacturing Chemists, CONTINUOUSLY increasing Cash Business; excellent position, large town, Kent; returns £1,200; good house; well-fitted shop; price, small goodwill and valuation, or offer.

DEATH VACANCY.—First reasonable offer; must be realised estate; splendid opportunity at low cost; fine position; neglected.

IN Western County; now returning £500 to £1,000; good hands easily £1,000; well-fitted shop, private entrance, large garden, stable, etc.; stock and fixtures estimated at £500 rent £45.

Tenders invited for complete Stock and Fixtures and Utensils, in excellent condition, of West-End Pharmacy; most liberal terms. See advertisement in Supplement, page xxiii.

No Charge Whatever to Purchasers.

P. C. B. makes a speciality of examinations and reports on businesses on behalf of purchasers and arranges the sale on very moderate terms.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," shows the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the publishers' correspondents in this country.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have notices addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BIRMINGHAM.—Cash Retail Drug and Drysaltery Business for Sale; established 21 years (present owner 2½ years); estimates stock, roughly, between £600 and £700; fittings, fixtures, and goodwill £120. 234/31, Office of this Paper.

GLoucester.—For immediate Disposal, owing to illness of advanced age, old-established Business; returns over £1,000; well-fitted corner shop; good house and garden. Full particulars 243/21, Office of this Paper.

HOME County.—Old-established, good-class Country Business for Disposal in thriving market town; returns over £2,500; profit £500 after paying all expenses; good house with garden; excellent stock; price £1,500; most genuine opportunity; fullest investigation courted. Address, 243/9, Office of this Paper.

SEASIDE.—Business in main thoroughfare of rising and popular resort; good prices obtained; scope for development; well-fronted shop, newly fitted; exceptional reasons for disposal; books will bear every investigation; capital required, about £1,000 for stock and fittings; no goodwill; no old stock. Apply, "Star," 149 Balby Road, Doncaster.

SHEFFIELD.—Drug Store, prospective centre, for Sale on valuation of stock and fixtures; rare opening for Dentist and Optics; proprietor enlisted is the cause of disposal; good stock. Apply, by letter, to "L," c/o 58 Roach Road, Sheffield.

BUSINESS, established, excellent quarter West End London, with house accommodation; good-class trade; weekly turnover averaging £20; rent and taxes about £100; approximate profit £300 per annum; moderate cash price; stock at valuation; principal solicitors only. "Executor" (240/21), Office of this Paper.

CHIST'S Business for Sale, situated near Rochdale, Lancs; valuation 5,000; no opposition; rent £26 per annum; turnover to be materially increased. For particulars apply Parkin S. Booth, Accountant to the Association of Manufacturing Chemists, Ltd., Bixteth Street, Liverpool, or C. L. Lewis, 3 King Street, Rochdale.

COUNTRY Business for Sale owing to death of proprietor; good scope for Veterinary, Photographie, Optics, and Dentistry; unopposed for radius of 5 miles; returns £165 last year; profits good; principally Prescribing; very few Patents; energetic man could make good living; would accept offer of stock valuation. M. Poulson, Lyminge, S.O., Kent.

DENTH Vacaney.—For immediate Disposal, old-established country Chemist's in Midland market town; 28 years late proprietor; fine opening for energetic man; very moderate rent. "A. H." (240/28), Office of this Paper.

EXCELLENT Drug and Stationer's Business, Midlands; look-up shop; main thoroughfare; good opening for Panel. Full particulars, 235/37, Office of this Paper.

OWNG to the death of Mr. Phillips (Tylers' Drug Stores, L.), 9 High Street, Marylebone, I am instructed to sell the Stock and Fixtures in the Pharmacy; the stock is in fair quantities, good condition, purchased from the best sources; the fixtures are good, solid mahogany and plate glass; the whole may be viewed at any time on the premises; offers for the whole or any part will be considered, either at a definite amount or at a liberal discount from cost price; a purchaser of the stock can have use of the shop and fixtures on hire for one year and a quarter at a nominal rent, or the whole premises, part of which are let off to cover whole rent and part of rates, taking the chance of obtaining new lease. Full particulars from Parson G. Bar, 1 Mountfield Road, Church End, Finchley, N. Tel., 812 Finchley.

RAD chance to purchase real live Business in pleasant industrial growing town, 50 miles from London; no opposition whatever; turnover £650, increasing; great scope for Dentistry, Optics and Photography; only those workers to whom business is first consideration need apply, to save correspondence: large Panel; price 550, part could remain. 242/12, Office of this Paper.

SOLD old-established Chemist's Business in good market town, Wiltshire, with excellent opening for Dentist, no resident dentist being in the district; turnover £550 yearly under management; rent only £12; valuation of stock and fixtures only required. Apply, Aubrey & Co., 10 Duke Street, Charing Cross, London, W.C.

WL fitted and stocked Drug Stores for Disposal, under lady management; husband at the Front; rent £40 and rates; 75. Digman, 153 Eardly Road, Streatham, S.W.

AGENCIES.

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AGENCIES Wanted.—A firm of General Importers, Indentors, and Manufacturing Agents have opening for Agencies of all kinds in splendid situation Melbourne business centre; fine, naturally lighted showrooms and large windows; reference, Commonwealth Bank of Australia. B. Duncan & Co., Strand Buildings, 153 Elizabeth Street, Melbourne.

DENTAL ROOMS WANTED.

DENTAL Surgery.—Advertiser requires Room or Rooms as a Dental Surgery, with or in proximity to a Chemist's, London or suburbs. "W. R.", 14 Norbury Avenue, Norbury, S.W.

APPRENTICESHIPS.

WANTED at once, well-educated youth as Apprentice in a first-class Pharmacy on South Coast; no premium required; comfortable home. F. Wimshurst, Devonshire Road Pharmacy, Bournemouth.

FOR SALE.

COMPLETE Chemist's Shopfittings, including Mahogany Counter and Wallfittings, Shop-rounds, Ointment Jars, etc.; must be sold quickly; first reasonable offer accepted. Apply, 121 Bishop's Road, Victoria Park.

EIGHT barrels Acid. Carbolio. Coml., pale, 95/97 per cent., 3s. 3d. per gallon, wood free; London. 240/15, Office of this Paper.

ENTIRE Stock of Fixtures, including 300 quart, pint, and half-pint Stoppered Shop Bottles and contents (guaranteed P.B. purity), Ointment Jars, 62 Drawers and contents, Wall and Counter Cases, 6 in all, Scales, Dispensing and Counter, etc.; accept £35; seen daily after 3.30 (Thursdays excepted). Drug Store, Staines Road, Sunbury-on-Thames.

FOR Sale, surplus stock of Sod. Salicyl. Phys. (Flake) in 1-lb. lots, 15s. per lb. Apply, Prince, Longton, Staffs.

TWO small National Cash Registers, in first-class condition, for Sale cheap; only used short time. Write, Clare, 78 Babo Road, Walthamstow, N.E.

WHAT offers? 1 oz. Lysidine, 1 oz. Orcxin, 3 oz. Creosotal, 1/2 oz. Thiocol, 1/2 oz. Salocoll, Schering, 1 oz. Orphol, 2 Ferratin, 1 oz. Chloralamid, 1/2 oz. Pyoktanin, 2 oz. Salophen, 1/2 oz. Asparagin, 2 oz. Betol, 1/2 oz. Protargol, 1 oz. Tannalbin, 1/2 oz. Ichthalbin, 1 oz. Analgen, 1/2 oz. Migrainein, 2 oz. Lactophenin, 4 oz. Syr. Colal. Hill, 1/2 oz. Loretin, 2 lb. Tinet. Castorei, 400 tabs. Phenol-thalein, gr. ij. in x. chocolate, 500 P.D. Uterine Tabs., 198, 25 grammes Acetopyrin. Greensill, Douglas, Man.

5 LB. Bism. Carb., 3 lb. Sod. Sal. P.P., 2 oz. Cocain. Hyd., 1 oz. Cocain. Pur., 3 oz. Protargol, 1/2 lb. each Iodin., Salol Acid, Acetosol., 1 lb. Acid. Salicyl., P., 2 lb. Ammon. Brom., 2 lb. Sodii Brom. 239/16, Office of this Paper.

PARTNERSHIPS.

PARTNER (ineligible) wanted with capital £3,000 to £5,000 or more if desired. Proprietors of old-established successful manufacturing business of Veterinary Medicines and Condiments sold to Agriculturists and Horsekeepers desire a Partner to relieve them of some of the pressure; knowledge and experience useful to the business as valuable as capital; must be a worker, prepared to act in Mills, Pharmacy, Warehouse, Office, or on the Road; principals only. Apply, "J. W." (237/2), Office of this Paper.

WANTED, Partner; small capital; no risk; sound business; numerous testimonials. Address for particulars, "Medium," 56 Millman Street, London, W.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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RETAIL.

BARNSELEY.—Wanted, an experienced Assistant for good-class Retail and Dispensing business; must be a reliable Dispenser; non-eligible. Apply, giving references, and stating age, experience and salary required, to J. W. Moorhouse, Pharmacist, Barnsley.

BIRMINGHAM.—Unqualified Assistant wanted immediately; must have had good Dispensing experience, accurate at figures, and good memory, for Prieing Prescriptions under new Tariff; salary 40s. weekly (outdoors); Scotsman preferred. Tranmer, Smethwick, Birmingham.

BIRMINGHAM.—Assistant, unqualified; accurate Dispenser and obliging at Counter; good salary and hours. Apply, with full particulars, General Manager, Hedges (Chemists), Ltd., Dalo End.

BLACKPOOL.—Assistant (ineligible for military service), for medium-class business; must be a quick and accurate Dispenser; outdoors. Send full particulars, and salary required, also, when disengaged, and enclosing photo (to be returned), C. R. Gaultier, Chemist, Central Drive, Blackpool.

BOSTON.—Qualified Manager, a capable, energetic, smart business man, one with large Store experience, to take charge of business in country town, with Agricultural connections; to a live man who can build up a somewhat neglected business upon up-to-date Store lines a liberal salary and commission; married man preferred; credentials must bear strictest investigations. Apply, Bailey, Chemist, Boston.

BRIGHTON.—Outdoors (immediately), Assistant, mainly for Dispensing; hours 9 to 7.30 (one day 9 to 9, one day 9 to 1.30); applicants should give full particulars as to experience, age, height, salary required, and enclose photo if possible; also state if exempt from Army service. Apply, J. Metherell, 101 Western Road, Brighton.

BURNHAM, Som.—Junior Assistant; indoors; knowledge of Photography. Full particulars, age, height, salary, etc., with photo, to W. H. Woodman, Pharmacist, Burnham, Somerset.

CAMBRIDGE.—Qualified Assistant, lady, or man ineligible for military service. G. Peck & Son, Pharmacists, Cambridge.

CARDIFF.—Wanted, live Assistant; good Counterman and Window-dresser; used to good-class business; short hours; half-day weekly; no Sunday duty; outdoors. Full particulars, age, salary required, etc., in first letter, please, Hicks & Co., Duke Street, Cardiff.

COLCHESTER.—Experienced Assistant required at once; ineligible for Army; knowledge of Photography and General Retail business. Full particulars and salary required to W. Edes Everett, Ltd., Pharmacists, Colchester.

CROYDON UNION.—Non-resident Female Dispenser and Medical Superintendent's Clerk at the Union Infirmary.—The Guardians invite applications for the above-named appointment. Candidates must be either a Licentiate of the Society of Apothecaries of London or hold a certificate of that Society as to qualification to act as Assistant in Compounding and Dispensing Medicines, or duly registered under the Pharmacy Acts as qualified to Compound Medical Prescriptions. The person appointed will be required to carry out the prescribed duties of the office. Salary £80 per annum, rising by annual increments of £10 to a maximum of £100, with day rations. Forms of application for this appointment, with particulars of duties and hours of service, can be obtained of the undersigned. Applications, in candidates' own handwriting, must reach me not later than the first post on Friday, the 10th inst. By Order, Harry List, Clerk to the Guardians, Union Offices, Mayday Road, Thornton Heath, Surrey, March 1, 1916.

FOLKESTONE.—Assistant wanted, qualified preferred; for high-class Dispensing business; exempt or ineligible for military service; in- or outdoors. Apply, with full particulars, salary required, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

FOLKESTONE.—Assistant wanted, as soon as possible, lady or gentleman, for good-class Retail and Dispensing; outdoors; others kept; hours 8 p.m., Saturdays 9.15, Wednesdays 1 p.m. State age, height, experience, and salary required, when disengaged, to F. G. Curtis & Sons, 94 Sandgate Road, Folkestone.

GRAVESEND.—Assistant (ineligible for military service), for medium-class business; must be a quick and accurate Dispenser; outdoors. Send full particulars and salary required applicants entertained), E. Millhouse, Gravesend.

GRIMSBY.—Junior, unqualified Assistant required; energetic man; only one ineligible for Army need apply; short; good salary; no Sunday duty; comfortable berth; outdoor Light Retail and Dispensing. Apply, stating age, height, salary required, references, enclosing photo (returned), to B. (Exors.), Chemists, Grimsby.

HUDDERSFIELD Industrial Society, Ltd.—Wanted, a Counter Assistant for Drug department. Give full particulars, first letter, Buxton Road, Huddersfield.

HULL.—Wanted; qualified Assistant (indoors); accustomed to Dispensing and good-class Retail business; short hours. Apply, stating age, height, salary required, and references to Metcalfe & Son, Pharmacists, Hull.

LANCASHIRE.—Unqualified Assistant, age about 45, for Store business; permanency; must be a first-class Counterman, and bear an irreproachable character. "P." (241/1), Office of this Paper.

LIVERPOOL.—Wanted at once, qualified Assistant (outdoors) short hours; state salary required. Hopwoods, Ltd., Scotland Road, Liverpool.

LONDON.—Lady Assistant required for high-class Chemist; must be a capable Dispenser and have a knowledge of Bookkeeping. "S. S." (241/120), Office of this Paper.

LONDON, N.—Wanted, an Assistant with good all-round experience for a middle-class Retail with N.H.I. Dispensary. Apply, with full particulars of experience, names of referees when disengaged, and salary required (in- or outdoors) "Chemist," 115a Stoke Newington Road, N.

LONDON, S.W.—Junior Assistant, lady, for Stock and Counter outdoors. Apply, stating full particulars, salary required, etc., Gray, 5 High Street, Barnes.

LONDON, S.W.—Manager wanted by March 27; outdoors; Assistant kept; salary £4 weekly, with commission; hours 9 to Saturdays 9 to 11; no Sunday or Bank Holiday duty. 149, Office of this Paper.

LONDON, W.—John F. Harrington, 15 Kensington High Street requires a Junior Assistant; lady or ineligible for Army. Apply, stating full particulars, together with age, height, salary required (outdoors), also when disengaged, and enclosing photo (to be returned).

LONDON, W.—Required, an Assistant, lady, or ineligible for Army. Apply, stating full particulars, age, experience, references, and salary required (outdoors), to W. A. West, 8 Sandringham Parade, Ealing.

LONDON, W.—Manager wanted; knowledge of West-End business essential. Apply by letter, in first place, Manager, 73 Bedford Road, S.W.

LONDON, W.—Qualified man wanted immediately. Apply, Spi & Co., 27 Tottenham Court Road.

LOWESTOFT.—A reliable Assistant required for Light Retail and Dispensing; good references necessary. Apply, stating age, salary, and other particulars, to Sale & Nurse, Pharmaceutical Chemists, Lowestoft.

MANCHESTER.—A qualified man with good references and up-to-date methods is required for Branch Management. Apply with full details, to Griffiths & Co., Chemists, Droylesden.

MANCHESTER District.—Qualified Manager (home accommodation for married man); also Junior (unqualified), outdoors, required for good-class Retail and Dispensing business. Address usual particulars, enclosing photo if convenient, to Woodruff, Chemist, Hazel Grove, Cheshire.

MANCHESTER.—A Junior Dispenser required, who has had experience in good-class business; no Sunday duty. State age, experience, and salary required (outdoors), Mottershead & Co., 7 Exchange Street, Manchester.

NEWQUAY.—Unqualified Assistant wanted (ineligible for military service), with good all-round experience, including Photography; outdoors; permanency. Apply, Pearce, Pharmacists, 24 Bank Street, Newquay.

PROVINCES.—Chemist required (Major qualification) for Testing and Experimental work. Please state age, experience, and salary desired, "E. W." (241/21), Office of this Paper.

SCARBOROUGH.—Wanted, unqualified Assistant. Clare & Hunt, South Street, Scarborough.

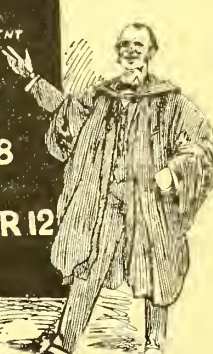
SHEFFIELD.—Junior or Improver, for quick Cash Suburban business; ineligible. State age, height, and salary expected and when at liberty, to H. H. Greenfield, Chemist, Hunter's Bar Sheffield.

RESULTS

OF ADVERTISING IN THIS SUPPLEMENT

LAST WEEK FEB 25, 1916

NATURE OF ADVT	REPLIES
TRAVELLER	22
REPRESENTATIVE	18
MANAGER	12
BRANCH MANAGER	12
ASSISTANT	10



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or name de plume.

OUTDOOR EAST.—Outdoors; immediately; easy hours; work, high-dispensing, Counter, and stock to fill time; competent (ineligible) might suit. Give full particulars and enclose first letter, and state terms, 241/32, Office of this Paper.

OUTDOOR EAST Watering-place.—Wanted, elderly qualified or registered chemist who desires to take things easy; hours short; Apply, giving full particulars, salary required, and when disengaged, to "Chemist," 6 Wilbury Crescent, Hove.

OUTDOOR EYON.—Manager, qualified, for Country Retail; market good Agricultural district; hours light. Particulars, if possible, to Holman, Ham & Co., Ltd., Market Street, Hove.

OUTDOOR F ENGLAND.—Assistant required; experienced; per-sonal, with good salary. Timothy White Co., Ltd., Portsmouth.

OUTDOOR G HERT.—Capable Assistant required, lady or gentleman. accustomed to good-class business; gentleman must be ineligible for Army. State experience, salary required, in first letter, Hold Barton, 111 Lord Street, Southport.

WESTRIDING, Yorks.—Wanted, Junior Assistant (outdoors) for dispensing business; non-eligible for military service. Apply, stating age, experience, height, to 242/190, Office of this Paper.

WISBECH.—Good all-round Assistant, accustomed to good Country Retail and Dispensing business; hours 8.30 to 10 p.m.; Wednesdays, 1 o'clock; Saturdays, 10 p.m.; no Sunday duty; no Panel. Apply, stating age, height, salary, references, to W. Boor, 1 High Street, Wisbech.

WORKING UNQUALIFIED Assistant, lady or gentleman (if latter, must be ineligible for military service), accustomed to good-class Counter and Dispensing. Apply, with full particulars, stating salary required (outdoors), to 241/39, Office of this Paper.

A COMETENT Assistant; ineligible; indoors: or a lady; must be accustomed to good-class Dispensing and Retail business. Apply, stating salary and usual particulars, to J. Selley, 202 Earl's Court Road, South Kensington.

ASSISTANT wanted, lady or gentleman, with Dispensing experience, for Richmond (Surrey) branch; good hours and no Sunday duty. Apply personally, or by letter, giving full particulars, to Corn Bros., Ltd., 12½ Carey Street, Westminster, S.W.

ASSISTANT, unqualified (outdoors), required immediately in high-class Retail and Dispensing business; country town. State full particulars, "X. Y. Z." (241/40), Office of this Paper.

CAPABLE Assistant required for Counter; accustomed to high-class Store trade; short hours; outdoors. Address, stating age, full particulars of experience, and salary expected, Secretary, Palace House, Hove (mark envelope "Private").

CHEMIST.—Qualified Chemist required for Dispensing duties; quick and accurate; ineligible for Army; permanency; hours 8 to 6, Wednesday 8 to 1; commencing salary about £168; no Counter work. State age and fullest particulars of experience to Junior Army and Navy Stores, Ltd., Aldershot.

CHEMIST'S Assistant (unqualified), Counterman, required, with experience of good-class trade; permanency; good prospects. State age (ineligible), commencing wages required, and fullest particulars of previous appointments to Manager, Junior Army and Navy Stores, Union Street, Aldershot.

IMPROVER or Junior (ineligible or under age for Army); also an unqualified Assistant, any age; arrangement could be made for attending classes, or would entertain part-time man. State salary, Address, Pharmacist, 102 Cross Lane, Pendleton, Manchester.

JOHN PARKER & CO., Kensington, W., require a qualified Dispenser; ineligible for military duties; hours 8 to 6, 1 o'clock Saturdays. Apply. R. E. Baron.

JUNIOR or Improver wanted for good Dispensing and Retail business, W. Pickard, 3 West Kensington Terrace, W. (opposite West Kensington Station).

LADY or gentleman required for high-class Dispensing business. Walden, 65 Elizabeth Street, Eaton Square, S.W.

LADY Dispenser; Medical Practice, London, S.W.; 30s. (out-door); must be experienced. Apply, 242/11, Office of this Paper.

MANAGER, qualified, for lock-up City business; no Sunday duty. Apply, with full particulars, salary required, and when disengaged, to Bau, 4 Quadrant, Lime Street, Liverpool.

MESSRS. BRUNTON & CO. have a vacancy for an Assistant; one accustomed to a Dispensing business. Apply, giving full particulars, to 240 Earl's Court Road, S.W.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects.

OUTDOOR Assistant wanted; London; Cash trade; ineligible; experienced. Apply, "Phenacetin" (243/13), Office of this Paper.

QUALIFIED Dispensers, male (ineligible), required at once. Apply personally, before 12 o'clock, to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

QUALIFIED Manager required for a well-established and progressive business; must be about 42 and have had good all-round experience; good agreement offered to the right man. "L." (241/122), Office of this Paper.

QUALIFIED Dispenser required; hours 8.30 to about 6.15, Saturday 1.30. State particulars and salary required, "T. C. M.," Drug Department, Junior Army and Navy Stores, 15 Regent Street, London, S.W.

REYNOLDS & BRANSON, LTD., Leeds, require a Junior Assistant; ineligible. Apply, in first instance by letter, giving age and experience.

SAVORY & MOORE require immediately two qualified Assistants, Minor qualifications; male or female. Apply, personally or by letter, stating experience and salary required, to 143 New Bond Street, W.

THE Stockport Co-operative Society, Ltd., require the services of a male (ineligible), or female, to act as Dispenser and assist in shop. Applications, by letter only, endorsed "Dispenser," stating age, experience, wages required, and where employed, must reach the undersigned not later than first post on Monday, March 6. By Order of the Committee, S. Taylor, Gen. Secretary.

UNQUALIFIED Assistant; must have been rejected by Army; comfortable permanency for capable man. State age, experience, and salary required, "U." (241/12), Office of this Paper.

WANTED immediately, Assistant, lady or gentleman, for Light Retail and Dispensing. Apply, with particulars regarding experience, references, and salary required (outdoors), to Horniblow & Son, 29 Sidbury, Worcester.

WANTED, one unqualified Assistant with good-class experience, not eligible for the Army; also one Drug Warehouseman for filling and despatching orders. Apply, stating particulars, to Wilson & Kitohin, Wholesale and Retail Chemists, Whitehaven.

WANTED at once, a qualified Assistant, good appearance and address, for high-class business; good salary offered to a competent man. Apply, in first instance by letter, to John Atkins, Chemist, Queen's Road, Bayswater.

WANTED, for West End, qualified elderly or one who desires easy berth; hours 11 to 2 and 4 to 7 o'clock; salary 25s. per week. Apply, with full particulars and when disengaged, to "Chemist," 30 Highdowne Road, Hove.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

PARIS.—Wanted, experienced Granulator and Tablet-maker by Wholesale house in Paris; good salary and prospects. Full particulars to 240/23, Office of this Paper.

ASSISTANT wanted for Wet Counter by Wholesale house in Edinburgh; must know the business thoroughly and be well recommended; £100 to £120. State age, experience, etc., to "Alpha," c/o Messrs. Wm. Edwards & Son, 157 Queen Victoria Street, London, E.C.

DRUGS and Chemicals.—Wanted, in the Buying Department of an Export house, Assistant, thoroughly versed in the Buying of Drugs and Chemicals; similar experience preferred; ineligible. Must state age, full particulars of experience, and salary expected, in confidence, to "East Indian," c/o Samuel Deacon & Co., 7 Leadenhall Street, E.C.

FOREWOMAN for small staff of girls wanted by London Drug house. Write, stating experience and salary required, to 149/280, Office of this Paper.

MALE Fitter wanted, with thorough experience of Trusses and Orthopaedic Appliances. Address full particulars, stating age and salary expected, to 146/6, Office of this Paper.

MAN required for Goods Receiving, Packing, and assisting in Manufacturing Chemists' Laboratory; must be ineligible. Apply by letter, stating age, experience, and salary required, to 147/20, Office of this Paper.

MAN required for Dry Floor. Apply, stating salary required, to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

PACKING-FLOOR Export and Bond Under-warehouseman wanted by Wholesale firm of Druggists in London; a good permanent position. Write, stating age, previous experience, and salary required, to 149/31, Office of this Paper.

PROVINCES.—Lady, about 30, required as Forewoman in Chemists' Sundries Warehouse; hours 8 till 7, Saturdays 1; knowledge of Chemist's business an advantage. Please mention salary required and previous experience, "F." (239/6), Office of this Paper.

REPRESENTATIVES, for sale of Epsom and Glauber Salts, on commission; must have first-class Chemist connection on South Coast and Eastern Counties. "S. F." (238/33), Office of this Paper.

REQUIRED, in Export Merchants' Office, Buyer of Drugs, Chemicals, and Surgical Appliances; must also be able to superintend Bottling of Chemicals from bulk; only applications considered from those ineligible military service. Write, stating full experience and salary required, 147/45, Office of this Paper.

REQUIRED, by a Wholesale firm, a competent man for Wet Cellar. State experience and wages, 240/22, Office of this Paper.

SAVORY & MOORE require an experienced Manufacturing Laboratory hand. Apply, stating age, wages, experience, etc., to Manager, 143 New Bond Street, W.

TABLETS (Compressed).—Wanted, an Assistant used to Granulating and to Management of Machines. Apply, by letter, stating wages required and past experience, to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

TYPISTS (female) wanted by firm of London Druggists; Invoicing and Shorthand. Write, stating experience and salary required, to 149/28, Office of this Paper.

UNDER-FOREWOMAN required; previous knowledge of Packed-drug trade essential. Apply, by letter, stating experience, Allen & Hanburys, Ltd., Bethnal Green.

WANTED, for Warehouse in Yorkshire, Assistants accustomed to handling Patent Medicines; also one or two hands for Wet-drug room. 238/34, Office of this Paper.

WANTED, Laboratory Assistant, experienced; over military age or ineligible. State experience and salary required to Cupal, Ltd., Blackburn.

WANTED, by Wholesale house, reliable men for Wet-counter work, Filling and Finishing; also two youths for general Warehouse work; ineligible for military service. Apply, personally or by letter, to Stevenson & Howell, Ltd., 95a Southwark Street, S.E.

WAREHOUSEMAN, accustomed to the Chemical trade, wanted by large firm in London; must be beyond military age, say 45-50; must have good record and first-class references; progressive position; hours 9 to 6; commencing salary 35s. per week and bonus. Write, stating situations held and period of each, to "Warehouseman" (142/66), Office of this Paper.

WET-FLOOR hand required. Apply, stating salary required, to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

WET Floor.—Required at once, several Wet-floor Assistants; permanency to the right men. Apply, giving full particulars and wages required, to 149/48, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CHEMIST'S Assistant, with knowledge of French. All letters, with references, should be addressed (in French) to the Pharmacie Principale, Geneva.

PHARMACIST or unqualified Assistant (male or female), speaking a little French, required in Pharmacy at Amiens, France, outside danger zone; good salary. Address inquiries and references to M. le Directeur de la Grande Pharmacie de Paris, à Amiens, France.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

A YOUNG lady, with 7 years' Dispensing and Counter experience, disengaged every evening 6.30, Saturdays 11.30, and Sundays. 239/3, Office of this Paper.

A CTIVE, reliable Locum; 52; good all-round experience; as stainer; references; unregistered. "Statim," 73 St. Andrews, Uxbridge.

A DVERTISER; 40; single, tall; good address; 20 years' experience in class London and Provincial Family Dispensing and Counter date Store experience; used to sole charge; unregistered; salary for conscientious service; Locum or permanent position engaged in a few days. "Forward," 52 Thane Villas, Letchworth.

A N elderly, qualified Chemist is open to an engagement as Chemist or Doctor, Clapham, Tooting neighbourhood; hours; moderate terms. "P," 33 Louisville Road, Balham.

DISENGAGED, thoroughly competent, reliable, experienced Assistant, Manager or Locum; ineligible; smart at Counter Dispensing; Prescribing, Window-dressing; town or country; good references; Locum date booked forward. "L. G.," 111 Crest, Hardings Green, Cookham Green, Berks.

DISPENSER, Bookkeeper, and Surgery Assistant, a lady, desires post with Doctor or Institution; ineligible; no encumbrances; experienced and abstainer; permanent position preferred; present post six years. W. Watts, 54 Quarry Road, Guildford.

EVENING work wanted by Pharmacist (lady); experienced; South Eastern district. 240/29, Office of this Paper.

EVENINGS, disengaged 6.30, 18 years' experience Dispensing; Counter; undeniable references; capable taking entire charge; unqualified; London, W., or Ealing district preferred. 217, Office of this Paper.

EVENINGS, 6.30, Dispensing or Counter; experienced; ineligible. "Energy," 11 Lucerne Road, Thornton Heath.

EXPERIENCED Dispenser and Bookkeeper; excellent references. "Iota," 28 Park Grove, Portway, West Ham.

EXPERIENCED, unqualified, N.H.I. Dispensing, Manager; married; 29; disengaged. "Prospect," 2 Leadyard Lane, Kingston.

EXPERIENCED Dispenser; tactful Salesman; permanent position. Locum: Forster, 54 Romilly Road, Finsbury Park, N.

HASTINGS District.—Unqualified Dispensing Assistant; married; 29; first-class experience, references. 243/8, Office of this Paper.

HOSPITALS and Infirmarys.—As experienced Dispensing Assistant; eligible; 6 years Medical Assistant and Surgery Assistant; smart, quick, neat. "G.," 10 Grange Road, Plaistow.

LADY, little experience in Dispensing, desires post, Doctor's Chemist, London; salary required. 239/17, Office of this Paper.

LADY Dispenser (Hall) desires post, Hospital or Dispensing; Apply, 239/9, Office of this Paper.

LADY, unqualified (23), Dispensing, desires position as Dispensing Assistant. "Aspirin," o/o 128 Carmene Street, Ardwick, Manchester.

LADY, qualified Dispenser and London Science Graduate (University College), desires part-time employment; X-ray experience. Blok, 41 Cator Road, Sydenham, S.E.

Dispenser (Apothecaries' Hall), age 23, desires post
ford, Wickford, or district in Essex near; some ex-
Wild, Trevone, Shenfield.

Dispenser (Apothecaries' Hall certificate) seeks post with
Man or public Institution; temporary or permanent.
E. Gleave, 7 Church Road, Brixton, S.W.

or temporary, reliable, experienced, qualified, first-
references; disengaged. Peach, Stoughton Road,

ER, unqualified; 44; competent Dispenser and Pre-
; good Salesman; active, single. 239/7, Office of
this Paper.

ER or Senior (44), married, accurate Dispenser, Pre-
ber, Photography, good Salesman; life experience,
private, desires permanency; not afraid of work;
ences: unregistered; abstainer. "Rhei," Montague
Wiam Street, Bognor.

ER or Assistant; unqualified; competent Dispenser,
Printer and Counterman; disengaged shortly; married,
middle-aged; good references. Chemist, 17 Clifton
Lehampton, Sussex.

ER or Locum; middle-aged; active; varied experience;
or country; best references; disengaged. "M.P.S."
fice of this Paper.

ER; 33; ineligible; qualified; capable; reliable; good
Dispenser, Salesman; excellent references. "Rex" (242/18),
Office of this Paper.

ER or Locum; 46; satisfactory references; disengaged.
"tarnine" (241/26), Office of this Paper.

TIME; London; qualified; exempt; two or three evenings
rely; some Sundays if required; first-class Dispensing ex-
239/14, Office of this Paper.

TEAM District.—Two or three evenings weekly; Saturday
2.30; experienced; qualified. 241/18, Office of this
Paper.

ACIOIST seeks post as Manager; experienced and capable;
to entertain Managership with view to purchase of a
business showing a net profit of not less than £250 a
"anager" (240/19), Office of this Paper.

ACIOIST (36) wants situation as Manager, with view to
ession; part cash down, part by arrangement; S.W. or
district preferred. "C. M. D." (240/40), Office of this
Paper.

ACIOIST (42), married, view to partnership or succes-
sion; preferred; successfully conducted own business;
personal interview. "Midlands" (240/30), Office of
this Paper.

ACIOIST, elderly, requires first-class engagement; £4.
Mount View Road, N.

IED; 31; ineligible; all-round experience; 7 years
End; no Counter. 238/36, Office of this Paper.

IED (27), good references, Manager, Locum or Assis-
240/37, Office of this Paper.

IED Manager, married, experienced. wants change;
Printer, Extractor. 242/22, Office of this Paper.

IED; disengaged; City and West-End experience;
eligible. "A. M." (243/11), Office of this Paper.

MPTON or District.—Qualified, as Dispenser to Hospital
Institution, or part-time Retail; wide experience; low
ion. 239/18, Office of this Paper.

LIFIED Assistant with Dental experience; ineligible;
disengaged. "Alpha," 4 Brintons Road, Southamp-

LIFIED: 62; 14 years last three berths. Emerson.
City, Broadway, Worcestershire.

LIFIED, unmarried, ineligible; 25; excellent all-
round experience and references; North preferred.
Office of this Paper.

UNQUALIFIED; 32; single; 14 years' all-round experience;
ineligible military service. Roberts, 3 Margarets Buildings,
Brock Street, Bath.

YOUNG lady (28), with good knowledge of Dispensing and
Doctor's Bookkeeping, desires evening employment; attend-
ing College of Pharmacy during day. "R. E. W.," 87 Vernon
Avenue, Raynes Park, Wimbledon.

YOUNG lady, serve through Toilet, Perfumery, Proprietary
Medicines, etc., assist Chemist's Packing. 243/36, Office of
this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in
no case be forwarded, the Box numbers being intended exclusively
for specific answers to particular advertisements. The Publisher
reserves the right to open and refuse to forward any communica-
tions received which he may consider contrary to this rule.

ADVERTISER, travelling with own Proprietary Toilet Article.
desires Represent well-advertised similar line; commission and
part expenses. "G. D. K.," 239B, High Holborn, W.C.

ASSISTANT (24) desires post in Wholesale, or Assistant to
Works Chemist; well educated; good references. "Theta"
(234/36), Office of this Paper.

BIRMINGHAM and Midlands.—Representative, 14 years' sound
connection leading buyers, open for an additional line; com-
mission; share expenses; Society guarantee. 239/1, Office of
this Paper.

EXPERIENCED Traveller, connection Eastern Counties, Mid-
lands and Yorkshire, requires berth with first-class house;
ineligible; age 39. 240/18, Office of this Paper.

F. S. MARSDEN; 12 years Messrs. Warrick Bros.; ground,
N. West, Midlands, West, N. and S. Wales; ineligible military
service. 22 Cotton Lane, Moseley, Birmingham.

LABORATORY Chief or Analyst; 40; Major qualification;
thorough knowledge of manufacturing; used to steam and
power plant. "Methodical" (241/24), Office of this Paper.

PHARMACEUTICAL Toilet Preparations, Perfumery, and
Chemicals; thoroughly practical man (27), ineligible, un-
qualified, 11 years' experience, desires permanency; London pre-
ferred. 243/32, Office of this Paper.

REPRESENTATIVE or Agent for London.—To prove my worth
as an outside selling force I am willing to Represent any
first-class house on commission; I am a qualified Chemist, of
smart appearance and good address; my Foreign Agency (French)
at a standstill; what offers? 239/10, Office of this Paper.

TRAVELLING Representative, gentleman, all-round experience,
seeks position, home or abroad; well known Ceylon, Southern
India, Burma, Straits Settlements. Address, 241/35, Office of
this Paper.

WEST of England.—Gentleman covering this ground desires
an additional commission for a well-known house; ex-
cellent references; guarantee. Address, "Ineligible" (241/34),
Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Black-
heath, S.E. Established 1898. Telephone, 81 Lee Green.
Shares for Sale (free of commission, subject)—100 Oil Cakes
Ordinary, 21s. 9d. c.d.; 100 Ilford Ordinary, 10s.; 300 Lewis
& Burrows Preference, 11s. 10½d.; 80 Salt Union Ordinary,
16s. 9d.; 400 Bovril Deferred, 7s. 9d.; 80 W. Gossage Preference,
19s.

Wanted (subject).—400 Idris "A" Preference; £1,000 Deben-
tures; 200 A. J. White, 4s.; 200 Crosfield Preference, 20s. 3d.
x.d.

Every effort made to effect business for Buyers and Sellers in
all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND Chemists' Fittings.—We have an exceptionally
fine selection of these in all sizes; prices are right, and
goods are in first-class condition; we shall be pleased to supply
particulars and prices. Call or write, RUDDUCK & CO., 262
Old Street, London, E.C.

SHOPFITTINGS.—Several second-hand all-glass Counters, removed from British Industries Exhibition, fitted with Glass Shelves, at half original prices; Plate-glass fronted Counters, Dispensing-screens, Wall Showcases with piano fronts; all ready for use. Write requirements to PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

DON'T TROUBLE TO THINK!

what style of Cards will ensure giving **BEST RESULTS** for your next Window Display.

SEND ALONG YOUR ORDER and particulars—**WE WILL DO THE THINKING** and supply **THE RIGHT STYLE** to secure you **EXCELLENT SALES.**

OUR PRICES ARE **LOW.** QUALITY—**THE BEST.**

F. MERTEN & CO., 72 MARLBOROUGH ROAD. | Previous Advt.
HOLLOWAY, LONDON, N. | cancelled

NOW IS THE TIME TO GET YOUR ARTICLES INTRODUCED ON THE DUTCH MARKET !!!

Anything in the **CHEMISTS', DRUGGISTS'**
or Allied Trades interests us.

Correspondence Invited. First-class References.
THE INTERNATIONAL TRADING CO. (Ltd. L. Co.)
Wynhaven 95a., ROTTERDAM, Holland.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the ordinary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.
Hegonon tablets (242/14)

FOR DISPOSAL.

Sole buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Acetanilid, 1½ lb. (238/40)	Metol (Agfa), 8 oz. (243/22)
Acid. salicylas, pure powder (Schering), 2 lb. (238/3)	Orange-yellow aniline vegetable dyes, 2 lb. (238/3)
Antipyrin (Knorr), 4 oz. (238/1)	Paraldehyde, 2 lb. (240/10)
Aspirin, 6 oz. (238/1)	Phenacetin (237/39)
Bromural, 1-oz. tin, unopened (239/12)	Phenazonum (237/39)
Chloral hydras, ½ lb. (238/1)	Potassa caustica, fused, 1 lb. (238/1)
Cocaine hydrochlor., 3 dr. (238/40)	Pot. bromid. (237/39), and 5 lb. (238/40)
Codeina, ¼ oz. (238/1)	Pot. permang. (237/39)
Diamidophenol, 1 lb. (243/22)	Protargol, 1 oz. (238/1)
Dionin ½ dr. (238/1)	Quin. sulph., 3 25-oz. tins (243/22)
Diuretin, 1 oz. (238/1)	Resorein (237/39)
Ext. suprarenal, fluid., 3 oz. (238/1)	Sodii bromid., 20 lb. (243/22)
Hydroquinone (Evans), 4 lb. (240/10)	Sodii salicylas (237/39), 5 lb. (238/40), and 7 lb. (240/10)
Metol (237/39)	Suphalonal 4 oz. (238/1)
	Trional, 1 oz. (238/1)
	Yohimbin, 1 gm. (238/1)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

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FOR DISPOSAL.

DRUGS AND CHEMICALS.

HYPO., 5 cwt. 17s. 6d., or exchange for folding hand craps. Vincent, 460 Holloway Road, London.

10s. the lot, 2½ oz. phenacetin, 4 oz. Schering's social. Markham, Berne House, Earls Gate, Winterton, Doncaster.
7 oz. hydrokinone; exchange pot. permang., phenazone, or ph. cet. and caffen tabs. "Chemist," 64 Greenwood Road, I. Ton, N.E.

WHAT offers? 12 25's, 9 100's 5-gr. antipyrine tablets; 5s. 6 100's 5-gr. sulphonal tablets; 24 100's 5-gr. aspirin tabs. Proctor, Crown Street, Halifax.

WHAT offers for 6 lb. of sodii salicylat., gr. v., tablets 2s. and B.D.H.), surplus stock? F. E. Buckingham, Clift, Red Lion Street, Aylsham, Norfolk.

600 Easton's ½ dr., 3s. 3d.; 37 gr. codeina, 2s.; 30 gr. apoph. hyd., 4s. 6d.; 1 dr. atrop. sulph., 18s.; 1 dr. 17 gr. op. pure, 23s.; 1 dr. cocaina, pure, 4s.; 1 dr. cocaina hy. ch., 2s. 6d.; 4 dr. quin. valer., 2s. 6d.; 2 oz. zinc valer 2s.; 12 oz. vermillion, 4s. Emerson, 113 Lynn Street, Hartlepool.

½ lb. lycopodium, 3s.; 1 oz. artificial musk (Baur), 2s. 4s.; 3 oz. beta-naphthol, 2s. 3d. per oz.; ½ lb. pot. ferriq 1s. 4s.; 6 oz. sulphonal, 3s. per oz.; 100 B.W.'s phen. in tabs., gr. v., 5s. 9d.; ditto, compound, 5s. 9d.; 2 lb. v. cantharid., Russian, 14s. 1b.; 1 lb. cantharides, Russian 1s. 1b. "Pharmacist," 239 Roundhay Road, Leeds.

MISCELLANEOUS.

FOR sale, tincture press, 2 gallons, double action; first-rate addition; what offers? Hirst, 81a Somers Road, Southsea.
TRUSSES, 13 single, Cole's pattern, 2s. 6d. each; 2 double, 3s. 4d. each; black gum-covered inguinal trusses, 38 single, 20 do. assorted sizes, 1s. 6d. each; hand warmers (Japanese), 1 complete with 30 charges, 2 gross, 8s. 6d. doz.; or exchange salable patents. Vincent, 460 Holloway Road, London.

1 cwt. Piguatalli juice, 3-oz. sticks; offer following, half-price, carriage paid: ½ doz. 3s. Kiope liniment; 1-12 doz. 1s. 3d. Kiope liniment; ½ doz. 1s. 3d., 1-12 doz. 3s. B. rheumatic cure; 1-12 doz. 3s. Roseweid tar-mixture; 2 doz. 1s. 3d. Pepper's taraxacum; 1-12 doz. each 5s., 1s. 6d. sacco; ½ doz. 3s. pinex; 1-12 doz. 3s. figuroids, 2s. 6d. tine; 1-12 doz. 1s. 3d. Handyside's rheumatic cure; 1s. 6d. sulphine concentrate; ½ doz. 1s. 3d. alveo; also Great soda fountain, cost £150, what offers? Finlayson, Stock-on-Tees.

WANTED.

VULCANISER, lathe, engine, wanted. State particulars and price. Cole, Cavan.

DRYING cupboard, small hot-air, wanted, second-hand; good condition. Write, "Glucose," 14 Surrey Road, Harrow.

WANTED, 150 20-oz. glass recess labelled bottles, N. and W. and poisons. State labelled names and price, Galloway, B. pool.

WANTED, "Pharmaceutical Formulas," 1st and 2nd editions issued in 1898; must be perfect and in good condition. P.C. "Wagga" (141/14), Office of this Paper.

WANTED, ½ ton dental plaster of Paris, old artificial pin to any quantity; cash by return. Mr. Holloway, M.P.S., South end.

WANTED to purchase, a Gardner's Rapid sifter and mixer hand power; also hand-power grinding mill. State make also price and particulars, T. O. Owen & Co., Manufacturer Chemists, Llandudno.

TINS, vaseline, ointments, salves, plain or labelled; any quantity wanted for cash. Levers, 56 Chapel Street, Manchester.

OPTICAL books, Minor, Major, Chemists' books; send prepaid valuation; cash offers per return. Gower, Bookseller, 41 V. taire Road, Clapham, S.W.

WANTED, scrap non-flame, films in quantity; also ordinary film and all kinds of waste celluloid. Box 101, Osborne-Peacock Co., Ltd., 82 Gordon Street, Glasgow.

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This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

**Concentrated
Crystal
Soda.**

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

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Bleaching Powder.

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